



Commercial FERTILIZERS

Report for 1961

H. J. FISHER

Chief Chemist

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REPORT ON INSPECTION AND ANALYSIS OF

COMMERCIAL FERTILIZERS

1961

H. J. FISHER, Chief Chemist1

CONNECTICUT LAW AND REGULATIONS REGARDING COMMERCIAL FERTILIZERS

The term "commercial fertilizers", as used in the Connecticut fertilizer statute, includes "any and every substance imported, manufactured, prepared or sold for fertilizing or manuring or soil amendment purposes, except barnyard manure and stable manure which have not been artificially treated or manipulated, marl and lime. "An amendment of the law in 1949 permitted fertilizers to be labelled with guaranties of elements other than nitrogen, phosphorus and potassium, but did not change the requirement that mixed fertilizers must contain at least 0.82 per cent of nitrogen, and I per cent of either phosphoric acid or potash, for guaranties of these elements to be made. Phosphorus must be declared as available phosphoric acid (except in the case of bone, tankage and other natural organic materials, where total phosphoric acid is guaranteed), and potassium as water-soluble potash; all other elements must be guaranteed in terms of percentages of the elements, not as oxides or salts. A registration fee of \$10.00, payable annually, is charged for each element guaranteed in each brand of fertilizer; there is also a six cent tonnage tax, payable semiannually.

While manufacturers usually register their own fertilizers, if a retailer sells a fertilizer manufactured by an out-of-state firm, and that firm refuses to register, under the law the retailer is responsible for registration fees and tonnage taxes. The retailer, therefore, should assure himself that the requirements of the law have been met by the manufacturers of the brands which he handles, or himself be prepared to meet all these requirements.

The law exempts from registration, and from other requirements, only: (1) fertilizers passing through the State in transit; (2) fertilizers and fertilizer materials shipped to regular fertilizer factories to be used for manufacturing purposes; and (3) fertilizers and fertilizer chemicals sold to The Connecticut Agricultural Experiment Station for experimental purposes.

Cottonseed, linseed, peanut and soybean oil meals, when sold or used for fertilizer purposes, must be registered as fertilizers and the specified fees paid there-

¹ Analyses were made by Messrs. Richard A. Botsford, Sherman Squires, Werner Mueller and Walter Oliver and Miss HelenKocaba; inspection and sampling by Mr. R. Richard Nichols; compilations by Miss Evelyn Caputo and Mrs. Margaret Krause.

on. For such products the registration fee is \$10.00 per brand. This fee and the tonnage tax are entirely apart from the registration fee required by the feeding stuffs law for vegetable meals used as feeds (there is no tonnage tax on feeds).

Because manufacturers or jobbers do not know how much, if any, of their vegetable meal tonnage is sold or used as fertilizers, local dealers and purchasers report their sales or purchases to this Station. This information is not for publication but is used to inform manufacturers of the total sales of their meal as fertilizer in this State. It is expected that the fees provided for by statute will be paid by the manufacturer or other party responsible for the brands.

OFFICIAL DEFINITIONS OF FERTILIZER TERMS AND MATERIALS

It is expected that fertilizers sold in this state will comply with the regulations and standards of the Association of American Fertilizer Control Officials. A copy of the "Official Publication" of that Association giving these definitions and regulations may be obtained from the secretary-treasurer, B. D. Cloaninger, Drawer 392, Clemson, South Carolina, for \$2.00.

REGISTRATIONS

For 1961,115 firms and individuals registered 523 brands of fertilizer at this Station for sale in the State. As required by statute, the brands are listed as follows:

A-PENN. OIL CO., Butler, Pa.

(Registered by International Minerals & Chemicals Corp., Woburn, Mass.)

Marvel Green Lawn Builder Complete Lawn Food

AGRICULTURAL PRODUCTS CO., 589 Atwells Ave., Providence, R. I.

APCO Organic Lawn Food Blue Ribbon 5-10-5 Fertilizer Lawn-Garden Golden Comet 8-6-4 Lawn Food Guardian Gro Green Lawn Fertilizer Super Turf King 8-6-4 Lawn Food Turf King Lawn & Garden Fertilizer 6-10-4

AGRICULTURAL SUPPLY CO., 221 Richmond Ave., West Haven, Conn.

Yale Special Mixture

ALLIED CHEMICAL CORP., Nitrogen Division., P.O. Drawer 61, Hopewell, Va.

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"Arcadian" A-N-L- Fertilizer Compound "Arcadian" Golden Uran 30 Solution
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"Arcadian" Golden Uran 32 Solution

"Arcadian" Nitrana Solution 2

"Arcadian" Nitrana Solution 3

"Arcadian" Nitrana Solution 4

"Arcadian" Nitrate of Soda

"Arcadian" Pelleted Ammonium Nitrate

"Arcadian" Urea 45 Fertilizer Compound (Pelleted)

AMERICAN AGRICULTURAL CHEMICAL CO., 285 River St., No. Weymouth 91, Mass.

AA Fertilizer 0-15-30

AA Fertilizer 0-20-20

AA Plant Food 5-10-5

AA Fertilizer 5-10-10 with 1.2 Magnesium

AA Fertilizer 8-16-16

AA Fertilizer 10-6-4

AA Fertilizer 10-10-10

AA Fertilizer 15-10-10

AA Quality Fertilizer 5-10-10

AA Quality Fertilizer 7-7-7

Agrico A. C. R. Fertilizer 6-10-4

Agrico African Violet Plant Food 17-17-17

Agrico Country Club 6-10-4

Agrico Country Club 8-6-4

Agrico Country Club Fertilizer 12-4-8

Agrico Country Club U.F. 10-6-4

Agrico for Aroostook 10-15-15

Agrico for Corn 8-16-16

Agrico for Gardens 5-10-5

Agrico for Lawns, Trees & Shrubs 6-10-4

Agrico for New England 5-8-7

Agrico for Potatoes 5-10-10 with 1.2 Magnesium

Agrico for Seeding Down 5-20-20

Agrico for Topdressing 7-7-7

Agrico for Topdressing 15-10-10

Agrico for Turf 6-8-2

Agrico for Turf - Grass Food 10-6-4

Agrico House Plant Food 17-17-17

Agrico Insect Control with Fertilizer

Agrico Phosphate & Potash 0-15-30

Agrico Phosphate & Potash 0-20-20

Agrico Rose Food 5-9-6

Agrico Weed Control with Fertilizer

Agrinite

Agri-Phos 20% Superphosphate

Homestead Complete Grass Fertilizer

AMERICAN AGRICULTURAL CHEMICAL CO., 285 River St., No. Weymouth 91, Mass. - Cont.

Homestead Farm Style Multi-Purpose Fertilizer 5-10-5 Phosphate Rock Superphosphate, 18% Normal

AMERICAN CYANAMID CO., P. O. Box 333, Princeton, N. J.

AERO Cyanamid, Granular AERO Cyanamid, Special Grade AERO-PHOS Florida Natural Phosphate 31% AERO-PHOS Florida Natural Phosphate 33% AERO Phosphoric Acid AEROPRILLS, Ammonium Nitrate Fertilizer AERO Urea Amanol Solutions Trebo-Phos Triple Superphosphate

ARCHER-DANIELS-MIDLAND CO., 700 Investors Bldg., Minneapolis 2, Minn.

> Archer Quality 44% Protein Solvent Extracted Sovbean Oil Meal

ARMOUR AGRICULTURAL CHEMICAL CO., Box 10, Carteret, N.J.

Armour Armorganic Plant Food Armour Big Crop Fertilizer 5-8-7 Armour Big Crop Fertilizer 5-10-5 Armour Big Crop Fertilizer 5-10-10 Armour Big Crop Fertilizer 8-16-16 Armour Big Crop Fertilizer 10-10-10 Armour Big Crop Superphosphate Armour Bone Meal Fertilizer Armour Cattle Manure Armour Gold Bond Tobacco Grower Armour Home & Garden Special Armour Lawn Special Armour Sheep Manure

Armour Vertagreen All Soluble Plant Starter

Armour Vertagreen Complete Plant Food for Commercial Crops 6-8-8

Armour Vertagreen Complete Plant Food for Commercial Crops 10-10-10

Armour Vertagreen for Acid-Loving Plants 5-10-10 Armour Vertagreen for Lawns & Gardens 5-10-5

Armour Vertagreen Plant Food 5-10-5

Armour Vertagreen Plant Food for Commercial Crops 3-12-12

Armour Vertagreen Plant Food for Commercial Crops 6-12-12

Armour Vertagreen Plant Food for Commercial Crops Tobacco Special 6-4-7

ARMOUR AGRICULTURAL CHEMICAL CO., Box 10, Carteret, N.J. - Cont.

Armour Vertagreen Plant Food for Turf & Trees 10-6-4
Armour Vertagreen Rose Food 5-10-5
Armour Vertagreen Turf Food with Chlordane 10-6-4
Armour Vertagreen Turf Formula 8-6-2 (50% Organic Nitrogen)

ASGROW SEED CO., 272 George St., New Haven, Conn.

Gro-Sod Lawn Food Purge Weed-Nix Lawn Food

ATKINS & DURBROW, INC., Box 55, Port Colborne, Ontario, Canada

Driconure 3-2-2

F. A. BARTLETT TREE EXPERT CO., 2770 Summer St., Stamford, Conn.

Bartlett Green Tree Food

BLACKSTONE GUANO CO., INC., 2000 Chesapeake Ave., Baltimore 26, Md.

Blackstone Fair Lawn 25% Organic Blackstone Living Lawn Blackstone Ranch Home

BONNIE GREEN PRODUCTS CO., Front & Bainbridge Sts. Philadelphia 47, Pa.

Bonnie Green Complete Lawn & Garden Food 16-8-9

BOOHER LUMBER CO., INC., Nedrow, N. Y.

Timberturf

THE BORDEN CO., Chemical Div., 350 Madison Ave., New York, N. Y.

Borden's "38"

JOSEPH BRECK & SONS, 401 Summer St., Boston 10, Mass.

Breck's Feed No Weed with 2, 4-d plus 2, 4, 5-T Breck's Garden-Gro Breck's Greenite (all organic) Breck's New Improved Turf-Gro Breck's Quick-Life Breck's Turf-Gro THE BRODE CORP., Box 700, Memphis, Tenn.

Owl Brand 41% Prime Cottonseed Meal

BROOKSIDE NURSERIES, INC., 228 Brookside Rd., Darien, Conn.

Brookside's Dried Blood Brookside's Natures Nutrients Brookside's Raw Bone Meal

W. ATLEE BURPEE CO., 18th & Hunting Park Ave., Philadelphia, Pa.

Burpee Lawn Food 20-10-5

CADWELL & JONES, INC., 199 Walnut St., Hartford, Conn.

C & J Hi-Organic Fertilizer 10-6-4 C & J Lawn Food with Weed Killer C & J Plant Food 5-10-5 Lighthouse Brand Fish Meal

CALIFORNIA CHEMICAL CO., Ortho Div., Lucas and Ortho Way, Richmond 4, Calif.

Ortho-Gro Liquid Plant Food 10-5-5 Ortho-Gro Liquid Plant Food 15-5-5 Ortho Lawn Groom Ortho Liquid Evergreen & Azalea Food 10-8-7 ORTHO Liquid Rose Food 8-12-4 ORTHO Prilled Ammonium Nitrate Fertilizer ORTHO UNIPEL 10-20-20 Pelleted Fertilizer ORTHO UNIPEL 14-14-14 Pelleted Fertilizer ORTHO UNIPEL 16-48-9 Pelleted Fertilizer ORTHO UNIPEL 20-20-0 Pelleted Fertilizer

CARBOLA CHEMICAL CO., INC., Natural Bridge, N. Y.

Carbola CCC Triple 20 Plant Food

PETER CASCIO NURSERY, INC., 2600 Albany Ave., West Hartford, Conn.

Cascio's High Organic 10-6-4 Lawn Food Cascio's Organite
Cascio's Professional 5-10-5 Lawn Food

CHILEAN NITRATE SALES CORP., 120 Broadway, New York 5, N. Y.

Chilean Nitrate of Soda - Champion Brand Chilean Nitrate of Soda - Potash - Champion Brand CLORO-SPRAY CORP., 2215 N. American St., Philadelphia 33, Pa.

Cloro-Spray Fairway-Spray 15-10-5

COCKE & CO., 208 William Oliver Bldg., Atlanta 3, Ga.

Cocke-Sure Brand Prime Quality 41% Protein Cottonseed Meal

Expello Brand 41% Protein Cottonseed Meal or Cake Prime Quality

CONSOLIDATED RENDERING CO., 178 Atlantic Ave., Boston 10, Mass.

Corenco 0-15-30

Corenco 0-15-30 with Boron

Corenco 0-20-20

Corenco 0-20-20 with . 11 Boron

Corenco 5-8-7

Corenco 5-10-5

Corenco 5-10-5 Home Garden

Corenco 5-10-5 Rose Special

Corenco 5-10-10

Corenco 5-10-10-1, 2

Corenco 5-10-10 Liquid Fertilizer Concentrate

Corenco 6-3-6 Perfection

Corenco 6-3-6 Premium

Corenco 6-8-8-1.2

Corenco 6-8-8 Potato Special

Corenco 7-7-7

Corenco 7-7-7 Rhododendron

Corenco 8-6-4 Landscape

Corenco 8-6-4 Turf Green

Corenco 8-12-12-.9

Corenco 8-16-16

Corenco 10-5-5 Liquid Green

Corenco 10-6-4 Golf & Lawn

Corenco 10-8-2 Timberline

Corenco 10-10-10

Corenco Cottonseed Meal

Corenco Granular Form Fertilizer 10-6-4

Corenco Green-O-Ganic

Corenco Ground Bone

Corenco Organic Turf Fertilizer

Corenco Sheep Manure with Inert matter

Corenco Sparz-on

Corenco Superphosphate 20%

Muriate of Potash

Organo

Sulphate of Potash

THE DAVEY TREE EXPERT CO., 117 S. Water St., Kent, Ohio

Davey Shredded Cattle Manure Davey Tree Food

DAVISON CHEMICAL CO., Div. W. R. Grace & Co., Hill Plant, Baltimore 26, Md.

0-15-30 Davco Granulated Fertilizer 0-20-20 Davco Granulated Fertilizer 5-10-5 Davco Granulated 3G Fertilizer 5-10-10 Davco Granulated 3G Fertilizer 8-16-16 Davco Granulated 3G Fertilizer 10-6-4 Davco Granulated 3G Fertilizer 10-10-10 Davco Granulated 3G Fertilizer 15-10-10 Davco Granulated 3G Fertilizer Davco Granulated 20% Superphosphate Turf and Garden Food 5-10-5

DAYTON FERTILIZER CORP., Georges Rd., Dayton, N. J.

Grand Garden Plant Food 6-10-4 Lawn Treat 5-10-5 Lawn Treat 10-6-4 Lightweight Lawn Treat

THE DOUGHTEN SEED CO., 253 Brunswick St., Jersey City 2, N. J.

Doughten's Lawn Food 9-8-3

E. I. DU PONT DE NEMOURS & CO., 6054 Du Pont Bldg., Wilmington, Delaware

Du Pont Nu Green Fertilizer Compound Du Pont Soluble Plant Food 19-22-16 Du Pont Turf Food 20-10-10 Du Pont Turf Food 20-10-10 with 2,4-D Weed Killer Du Pont Uramite Fertilizer Compound Du Pont Uramite M Fertilizer Compound Du Pont Urea Nitrogen Fertilizer

EASTERN STATES FARMERS' EXCHANGE, INC., 26 Central St., West Springfield, Mass.

Eastern States 0-15-30 with . 3 Boron Eastern States 0-15-30 W/B with 0.3% Heptachlor Eastern States 0-25-25 Eastern States 5-10-10 SM with 1.2 Magnesium Eastern States 8-16-16 with . 6 Magnesium Eastern States 10-6-4 Eastern States 10-10-10 with . 6 Magnesium

EASTERN STATES FARMERS' EXCHANGE, INC., 26 Central St., West Springfield, Mass. - Cont.

Eastern States 10-10-10 LC with 1.2 Magnesium

Eastern States 10-15-15 with 1.2 Magnesium

Eastern States 10-15-15 LC with 1.2 Magnesium

Eastern States 10-20-10 with . 6 Magnesium

Eastern States 15-10-10

Eastern States 15-15-15

Eastern States Green Lawn

Eastern States Muriate of Potash 60%

Eastern States Start-N-Gro

Eastern States 20% Superphosphate

EASTMAN GELATINE CORP., 227 Washington St., Peabody, Mass.

Dicalcium Phosphate

EDGEWOOD FARMS, INC., Marysville, Ohio

Edgewood Farms Bulb Food

Edgewood Farms Boost

Edgewood Farms Rose Food

ELLAR CHEMICAL DISTRIBUTORS, INC., Route 17, Lodi, N.J.

Ellar's 5-10-5 Best

JOHN W. ESHELMAN & SONS, Lancaster, Pa.

41% Solvent Extracted Cottonseed Meal

THE ESPOMA CO., P. O. Box 431, Millville, N. J.

Bulb-Tone

Espoma Garden

Espoma Organic 3-2-1

Espoma Rose Food

Holly-Tone

Turf-Tone

FAESY & BESTHOFF, INC., 25 East 26th St., New York 10, N.Y.

F & B Azalea-Camellia-Rhododendron Food

F & B Cottonseed Meal

F & B Evergreen Food 7-7-7

F & B Puse Steamed Bone Meal

F & B Rose Food

FARMINGDALE GARDEN LABS, INC., Farmingdale, N. Y.

Farmingdale 10-6-4 Uramite Green Turf

GANSCO PRODUCTS LIMITED, 62 Richmond St. W., Toronto, Canada

GARD-N-STIK 5-4-4 GARD-N-STIK 6-12-12 GARD-N-STIK 12-8-6

THE GARDEN CENTER INC., 53 LaSalle Rd., West Hartford, Conn.

Garden Center Lawn Fertilizer
Garden Center of West Hartford Lawn Weed Killer & Feed
Granules

GEIGY AGRICULTURAL CHEMICALS, Saw Mill River Rd., Ardsley, N. Y.

Sequestrene 138 Fe Iron Chelate Sequestrene 330 Fe Iron Chelate Sequestrene Na₂Cu Copper Chelate Sequestrene NaFe Iron Chelate Sequestrene Na₂Mn Manganese Chelate Sequestrene Na₂Zn Zinc Chelate

G.L.F. SOIL BUILDING SERVICE, Div. Cooperative Grange League Federation Exchange, Inc., 1001 W. Seneca St., Ithaca, N. Y.

Squire Applegate "Brite" Lawn Fertilizer
Squire Applegate Garden Care Plant Food with Dieldrin

Squire Applegate Groleaf Garden Plant Food with Organic

Squire Applegate Groleaf Greenlawn with Uramite

Squire Applegate Groleaf Turfood with Chickweed Killer plus 2, 4-D

Squire Applegate Groleaf Turfood with 2, 4-D Weed Killer

Squire Applegate High Organic Plant Food

Squire Applegate High Organic Plant Food with Dieldrin

GLEN TERRACE NURSERIES, INC., 1960 Whitney Ave., Hamden, Conn.

(Registered by The Hubbard-Hall Chemical Co., Waterbury, Conn.)

Glen Terrace Lawn Food 10-6-4

GODFREY'S GARDEN SHOP, 1630 Post Rd., Fairfield, Conn.

(Registered by The Hubbard-Hall Chemical Co., Waterbury, Conn.)

Godfrey's Lawn & Tree Food 10-6-4

GOLDENROD OIL MEAL SALES CO., 727 Beale St., Memphis, Tenn.

Goldenrod Brand 41% Protein Cottonseed Meal

GOULARD & OLENA, INC., Skillman, N. J.

- G & O Bone Meal
- G & O Evergreen Food
- G & O Food for Bulbs
- G & O Hyganic 10-6-4
- G & O Light Fantastic Lawn Food 20-6-4
- G & O Muriate of Potash
- G & O Nitrate of Soda
- G & O Plant Food for Acid Loving Plants
- G & O Prime Cottonseed Meal 41%
- G & O Prizegro for Gardens
- G & O Rose Food
- G & O Sulphate of Ammonia
- G & O 20% Superphosphate
- G & O Tomato and Fruit Food
- G & O Turf Food & Insecticide 10-6-4 = Chlordane Goulard's Formula 8-15-5
- W. R. GRACE & CO., Grace Chemical Div., 147 Jefferson Ave. Memphis 3, Tenn.

Grace Urea Prills
Grace Urea Prills - 46

GRAY CHEMICAL, INC., 105 Maplewood Ave., Gloucester, Mass.

Mer-Made Plant Food

GREEN-D PRODUCTS, INC., 11th & RR Ave., Huntington Sta., N. Y.

Green-D Lawn Food Deluxe 100% Organic Nitrogen 10-6-4

Green-D 40% Organic Nitrogen Rose Food

Green-D 10-6-4 50% Organic Nitrogen

Green-D 60% Organic Nitrogen Azalea Food

Green-Gro All-Purpose Economy Fertilizer 5-10-5

Green-Gro Economy Lawn & Turf Fertilizer 10-6-4

HALSTEAD DISTRIBUTING CO., Suttons La., Mt. Kisco, N. Y.

Just Right 5-10-5 for Lawns Gardens and Shrubs Just Right Turf Food 10-6-4

THE CHARLES C. HART SEED CO, 304 Main St., Wethersfield, Conn.

Hart's All Organic

THE CHARLES C. HART SEED CO., 304 Main St., Wethersfield, Conn. - Cont.

Hart's All Purpose Plant Food Hart's Rose Food Hart's Turf Food Hart's Two-For-One

HAYNIE PRODUCTS, INC., 108 East York St., Baltimore 30, Md.

Hi-Seas Menhaden Fish Meal

HERCULES POWDER CO., Hercules Tower, 90 Market St., Wilmington 99, Del.

Hercules-Nitroform

HERSHEY ESTATES, Hershey, Pa.

Ko-K-O Meal

HH Plant Food

A. H. HOFFMAN, INC., Landisville, Pa.

Hoffman Cow Manure (Dehydrated) Hoffman Sheep Manure (Dehydrated)

GEO. A. HORMEL & CO., Austin, Minn.

Vita Black Blood Meal Vita-Black Bone Meal Vita-Black 6-3-3 Specialty Lawn & Garden Fertilizer

THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St., Waterbary, Conn.

Castor Pomace Cotton Hull Ashes Dry Ground Fish Emerald Green Evergreen Food Emerald Green Lawn Food Emerald Green Plant Food Emerald Green Rose Food Green Gro Lawn Fertilizer 6-7-4 Green Ribbon All Purpose Plant Food 5-10-5 Green Ribbon Lawn Food 10-6-4 HH Blade Lawn Food with Urea-Form HH Bone Meal 2-25% HH Cow Manure HH Evergreen Food 4-10-4 HH Gro Mor Garden Fertilizer HH Lawn Fertilizer with Chlordane HH Luxura Lawn Food with Urea-Form HH Nitroganic

THE HUBBARD-HALL CHEMICAL CO., 28 Benedict St., Waterbury, Conn. - Cont.

HH Rose Food HH Sheep Manure HH Turf & Tree Food HH Weed-Kil Lawn Food with 2, 4-D Lawn Craft Turf Fert. for Professional Use Lawn Craft 8-6-4 Turf Food (50% of N. is Organic) Liberty Fertilizer 0-15-30 Liberty Fertilizer 0-20-20 Liberty Fertilizer 5-8-7 Liberty Fertilizer 5-10-5 Liberty Fertilizer 5-10-10 Liberty Fertilizer 5-10-10 1.2 mag. Liberty Fertilizer 6-8-8-1.2 Liberty Fertilizer 7-7-7 Liberty Fertilizer 8-12-12-1.2 Liberty Fertilizer 8-16-16 Liberty Fertilizer 10-6-4 Liberty Fertilizer 10-10-10 Liberty Fertilizer 15-10-10 Liberty High Grade Tobacco Fertilizer Liberty New Super Spud 1. 2 mag. Liberty Special Potato Fertilizer 1.2 mag. Liberty Super Corn 10-10-10 Liberty Super Gro 5-10-10-2 Liberty Super Gro 6-12-12 with 1.2 mag. Liberty Tobacco Fertilizer Muriate of Potash Nitrate of Potash Precipitated Bone Sulphate of Potash Superphosphate, 20% Urea 46%

HUMPHREYS-GODWIN CO., 83 S. Front St., Memphis, Tenn.

Dixie Brand 41% Cottonseed Meal 41% Protein Cottonseed Meal

Woodruff's Lawn & Tree Food

INTERNATIONAL MINERALS & CHEMICAL CORP., P. O. Box 230, Woburn, Mass.

Muriate of Polash - Granular
(Registered by Eastern States Farmers' Exchange, Inc.,
West Springfield, Mass.)

Sul-Po-Mag
(Registered by Hubbard-Hall Chemical Co., Waterbury, Conn.)

SPENCER KELLOGG AND SONS, INC., 120 Delaware Ave., Buffalo. N. Y.

Spencer Kellogg's 32% Protein Old Process (Expeller) Linseed Oil Meal

Spencer Kellogg's 44% Protein Soybean Oil Meal - Solvent Extr.

KEN-BRIS FARM, INC., 701 South Front St., Philadelphia 47, Pa.

Society Hill Lawn Feeder Society Hill Weeder-Feeder

LAWN & GRASS SEEDS, INC., 422 Fulton St., Buffalo 10, N.Y.

Fabulawn Brand Lawn Fertilizer Fabulawn Brand Weed & Feed

LAWN-TEX, INC., 1640 W. Fulton St., Chicago, Ill.

Organi-Green

LEBANON CHEMICAL CORP., P. O. Box 532, Lebanon, Pa.

Lebanon Azalea Food
Lebanon Bone Meal
Lebanon Cow Manure
Lebanon Fertilizer 5-10-10
Lebanon Hi-Organic
Lebanon Plant Food
Lebanon Rose Food
Lebanon Sheep Manure
Lebanon Truck Crop
Lebanon Turf Organic
Lebanon Uni-Form

LEE PATTEN SEED CO., 360 Ninth St., Jersey City 2, N. J.

Patco's Combo with 2,4D plus 2,4,5T Patco's Featherweight (Lawn Food) Patco Lawn Food 9-8-3

THE LIBNER GRAIN CO., 25 Commerce St., Norwalk, Conn.

Libner's Fertilizer Bone Meal

LOFTS PEDIGREED SEED CO., 96 Forrest St., Jersey City, N.J.

Lofts General Purpose 15-10-5
Lofts Lightweight for Turf
Lofts Pedigreed Azalea & Rhododendron Food 5-8-7
Lofts Pedigreed Evergreen Food 5-8-7
Lofts Pedigreed Rose Food 7-11-5

L.B. LOVITT & CO., 314 Cotton Exchange Bldg., Memphis, Tenn.

"Lovit Brand" 41% Protein Cottonseed Meal Prime Quality

MAEGEO FARMS, Lexington, No. Carolina

Dehydrated Sheep Manure Fertal-Gro (Dehydrated Cow Manure)

THE MAMLON CO., P. O. Box 3046, New Haven 15, Conn.

FER-MEL General Purpose Plant Food FER-MEL Lawn Food FER-MEL Water Soluble Turf & Tree Food

MASS. NURSERYMEN'S ASSOCIATION, 261 Franklin St., Boston 10, Mass.

Plant-O-Ganic Turf-O-Ganic

MC ARDLE'S SEED CO., 388 Greenwich Ave., Greenwich, Conn.

McArdle's 10-6-4

MC NAIRS FARMS, Fairley St., Laurinburg, N.C.

McNairs' Organure Dehydrated Cow Manure

MONSANTO CHEMICAL CO., 800 N. Lindbergh Blvd., St. Louis 66, Mo.

Lion Ammonia Nitrate Fertilizer
Lion Prilled Urea Fertilizer 45-0-0

NATURAL PLANT FOOD CO., 1409 N.W. 50th St., Oklahoma City, Okla.

Longhorn Brand Cattle Manure Ramshorn Brand Sheep Manure

NU LIFE PRODUCTS CO., Strong Road, S. Windsor, Conn.

Nu Life (Magic Gro)

OLD FOX AGRICULTURAL SALES INC., 66 Valley St., East Providence, R. I.

Green Lawn
Old Fox Brand 0-0-60 (Muriate of Potash)
Old Fox Brand 0-15-30
Old Fox Brand 0-20-0 (Superphosphate)
Old Fox Brand 4-16-20

OLD FOX AGRICULTURAL SALES INC., 66 Valley St., East Providence, R. I. - Cont.

Old Fox Brand 5-10-10

Old Fox Brand 5-10-10-1.2

Old Fox Brand 6-3-6

Old Fox Brand 6-8-8-1.2

Old Fox Brand 6-10-10-1.2

Old Fox Brand 7-7-7

Old Fox Brand 8-10-10-1.2

Old Fox Brand 8-16-16

Old Fox Brand 10-10-10

Old Fox Brand 15-10-10

Old Fox Brand Tobacco Fertilizer 6-3-6-1.2

Old Fox Garden Food 5-10-5

Old Fox No Pest Turf Food

Old Fox Organo

Old Fox Turf Food 8-6-2

Old Fox Turf Food with Ureaform

OLIN MATHIESON CHEMICAL CORP., 32 South St., Baltimore, Md.

Ammo-Phos Granulated 20% Superphosphate Mathieson Pelletized Urea Fertilizer

PAX CO., P. O. Box 2310, Salt Lake City 10, Utah

New Pax Crabgrass and Soil Pest Control PAX Pride PAX Snap Bak (for lawns only)

ROBERT B. PETERS CO., 2833 Pennsylvania St., Allentown, Pa.

Peters Special 13-6-6 Peters Special 20-5-30 Peters Special 20-20-20 Peters Special 25-10-10

FRANK S. PLATT CO., Post Rd., Branford, Conn.

Platt's Hi-Organic Lawn Fertilizer 10-5-5

PRIDE OF THE VALLEY MILLS, Vernon, N. J.

Fiestar

PROSPECT MANUFACTURING CO., Cranbury, N. J.

Lawn & Garden Food 10-6-4 Lawn Master 5-10-5 Fertilizer Lawn Master 10-6-4 Hi-Organic Fertilizer New Garden Crest Lawn & Garden Fertilizer 5-10-5 RA-PID-GRO CORP., 88 Ossian St., Dansville, N. Y.

Ra-Pid-Gro

ST. LOUIS NATIONAL STOCKYARDS CO., Exchange Bldg., National Stock Yards, Ill.

Wizard Brand Cow Manure Wizard Brand Sheep Manure

O. M. SCOTT & SONS CO., Marysville, Ohio

Scotts Dawn Scotts New Turf Builder Scotts New Weed & Feed - Bonus

SEABOARD SEED CO., 701 S. Front St., Philadelphia 47, Pa.

Seaboard's Hi-Acid Plant Food 8-14-6 Seaboard's Lawn & Plant Food Seaboard's Lawn Feeding Weed Killer

SEARS, ROEBUCK & CO., 925 S. Homan Ave., D/671, Chicago 7, Ill.

Cross Country Azalea Food Cross Country Bone Meal Cross Country Bulb Food

Cross Country Cattle Manure

Cross Country Crabgrass Plant Killer with Lawn Food

Cross Country Economy Fertilizer
Cross Country Evergreen Food
Cross Country Instant Plant Food

Cross Country Instant Rose Food Cross Country Instant Tomato Food

Cross Country Lawn Food

Cross Country Lawn Food w/Weed Killer

Cross Country Lawn Quick Green 10-6-4

Cross Country Liquid Plant Food

Cross Country Merion Bluegrass Lawn Food 20-10-5

Cross Country Organic Cattle Manure Compost

Cross Country Organic Sheep Manure Compost

Cross Country Plant Food Cross Country Rose Food

Cross Country Sheep Manure

Cross Country Sulfate of Ammonia

Cross Country Superfine Lawn Food

SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE, P. O. Box 2079, Milwaukee 1, Wis.

Milorganite (50 lb. bag size) Milorganite Milorganite Plus 2,4-D THE SHERWIN-WILLIAMS CO., 101 Prospect Ave., N.W., Cleveland, Ohio

Sherwin-Williams 34% Linseed Oil Meal (Solvent Extr.)

M. L. SHOEMAKER, Div. Wilson & Co., Delaware & Venango Sts., Philadelphia, Pa.

M. L. Shoemaker's "Swift-Sure"

THE SOUTHERN COTTON OIL CO., Div. Hunt Foods & Industries, Inc., 738 West Union St., Greenville, Miss.

Sco-Co 41% Protein Cottonseed Meal

A. E. STALEY MANUFACTURING CO., Decatur, Ill.

44% Protein Solvent Extracted Soybean Oil Meal

STERN'S NURSERIES, 404 William St., Geneva, N. Y.

Miracle-Gro for Roses

STIM-U-PLANT LABORATORIES, INC., 2077 Parkwood Ave., Columbus 19, Ohio

Stim-U-Plant 5-8-7 Stim-U-Plant 11-12-15

SWIFT & CO., Agricultural Chemical Div., Curtis Bay, Baltimore 26, Md.

Golden Vigoro
Golden Vigoro with End-O-Pest
Instant Vigoro
Par-Ex
Pink Vigoro
Vigoro Bulb Food
Vigoro Evergreen Food
Vigoro for Azaleas & Camellias
Vigoro Lawn Starter
Vigoro Rose Food
Vitogro
Vitogro
Vitogro Lawn Weeder & Feeder

SWISS FARMS, Philmont, N. Y.

Plantdrops Instant Liquid African Violet Food Plantdrops Instant Liquid Plant Food 6-18-6 Plant Food 6-15-11 Rose Food 6-15-11 L. TEWELES SEED CO., 222 S. 3rd St., Milwaukee, Wis.

Nuturf COMBO Nuturf TURF-LIFE

TIMBERLAKE INDUSTRIES INC., Warren, Maine

Endressin

TOWN & COUNTRY PRODUCTS, 1072 West Side Ave., Jersey City, N. J.

Green Pride Lawn & Plant Food

UNEXCELLED CHEMICAL CORP., Bennett & Clayton Division, Cranbury, N. J.

B/C Brand Fertilizer 5-10-5
Garden Crest 5-10-5
General Green 20-10-5
Lawn & Garden Food 5-10-5
Lawn & Garden Food B/C Brand 5-10-5
Lawn & Garden Food Hi-Organic 10-6-4
Lawn Life 20-10-5
Lawn Master Fertilizer 10-6-4 100% Organic
Lawn Master Hi Organic 10-6-4
Princeton Park 5-10-5 Lawn & Garden Fertilizer
Princeton Park Lawn & Garden Fertilizer

U. S. PHOSPHORIC PRODUCTS, Div. Tennessee Corp., P. O. Box 3269, Tampa 1, Fla.

Tencor Triple "46" 46% APA Triple Superphosphate

UNITED STATES STEEL CORP., 525 William Penn Pl., Pittsburgh 30, Pa.

USS Ammonium Sulfate

UNIVERSAL CHEMICAL CO. INC., Box 195, West Lynn, Mass.

Electra Plant Food 5-10-3

VALLEY FEED & SUPPLY CO. INC., Union Rd., Spring Valley, N. Y.

Adorna 3-1-1 Adorna Azalea Food 6-10-5 Adorna Tree Food 8-7-7

VITTNER'S GARDEN CENTER, 1 Tolland Turnpike, Manchester, Conn.

Vittner's Weed & Feed

WALKER-GORDON LABORATORY CO., Plainsboro, N. J.

Bovung

OSCAR F. WARNER, 24 East Aurora St., Waterbury, Conn.

Warner Grubedizer Warner Lawn Food Warner Tree Food

WHITNEY SEED CO. INC., 599-601 Perry St., Buffalo 5, N. Y.

Whitney's Brand Lawn Fertilizer 20-10-5 Whitney's Vital Brand Fertilizer plus Weed Killer

GARFIELD WILLIAMSON, INC., 1072 West Side Ave., Jersey City, N. J.

Plantspur Wonderlawn Lawn Food Wonderlawn 100% Organic Nitrogen

ANDREW WILSON, INC., Baltusrol Way, Springfield, N. J.

Wilson's Eureka Plant Food

WIRTHMORE STORES, INC., Waltham, Mass.

(Registered by Consolidated Rendering, Boston, Mass.)

Organo 10-5-5

S. D. WOODRUFF & SONS OF WETHERSFIELD, INC., 304 Main St., Wethersfield, Conn.

Woodruff's Tuf Turf Food Woodruff's Tuf Turf Lawn Fertilizer 20-10-5 Woodruff's Tuf Turf Two-For-One

FERTILIZER INSPECTION FOR 1961

The Connecticut fertilizer law does not provide for compulsory limitation of the grades of fertilizer that may be sold in this State, but because all authorities are agreed that a small number of grades can take care of all the needs of agriculture, and that standardization on a few grades will promote economy in manufacture and aid in keeping prices down, the New England agronomists have from time to time compiled lists of recommended fertilizer ratios and minimum grades.

The latest list of ratios, as finally approved at a meeting in Burlington, Vermont on June 19, 1961, and the most common market grades, are as follows:

Ratio	Common Grade
0-1-1	0-20-20
0-1-2	0-15-30
0-1-3	0-10-30
0-1-4	0-10-40
0-3-1	0-30-10
1-1-1	10-10-10
1-2-2	5-10-10
1-4-2	3-12- 6
2-1-1	10- 5- 5
2-1-2	6- 3- 6
2-3-3	8-12-12
3-2-2	15-10-10
3-4-4	6- 8- 8
4-2-3	12- 6- 9
4-3-1	8- 6- 2

Seventy-one per cent of the mixed fertilizers sold in this State during the 1960-1961 season were of the recommended ratios, in grades whose plant food content equalled or exceeded the "common grades" listed above. Another 14 per cent was concentrated in the two grades 5-10-5 and 10-6-4, of which one was in the previous recommended list.

During the past season the Station agent collected samples of all registered brands that could be found on the market. The total number of official samples analyzed was 474.

The following tabulation lists the number of samples analyzed (both official and unofficial) of each class of fertilizer, as well as the tonnage sold during the period between July 1, 1960 and June 30, 1961:

CLASSIFICATION OF FERTILIZER MATERIALS AND FERTILIZER TONNAGE

(Tonnage is for the period of July 1, 1960 to June 30, 1961)

	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		30, 1,01)
		No. of	
I.	Containing chiefly nitrogen:	Samples	Tonnage
	Nitrate of ammonia	3	555
	Nitrate of soda	6	378
		O	
	Sulphate of ammonia		23
	Cyanamid	2	117
	Urea	11	976
	Castor pomace	3	812
	Cottonseed meal	43	4,854
	Dried blood	1	2
	Linseed oil meal	13	634
	Soybean oil meal	3	100
	Other materials	6	496
	Other materials	O	
**			8,947
II.	Containing chiefly phosphoric acid:		1.00
	Superphosphate 18%		128
	20%	12	3,901
	46%	5	
	Dicalcium phosphate	2	
	Precipitated bone	5	268
	Phosphate rock	1	44
	I mospitate rock	•	4,341
III.	Containing chiefly potash:		1, 541
111.		۷	403
	Muriate of potash	6	
	Sulphate of potash	2	139
	Sulphate of potash-magnesia	1	60
	Cotton hull ashes	5	163
			765
IV.	Containing nitrogen and phosphoric a	cid:	
	Dry ground fish	10	297
	Bone meal	8	267
	Diammonium phosphate		9
	Other materials	3	755
	Other materials	3	1,328
7 <i>T</i>	Containing mitrogram and notash:		1,520
V.	Containing nitrogen and potash:	2	0
	Nitrate of potash	2	9
	Nitrate of soda-potash	1	
			9
VI.	Mixed fertilizers:		
	Commercial mixtures	315	47, 289 ¹
	Special and home mixtures	6	6,556
	·		53, 845
VII.	Miscellaneous:		
•	Borax		21
	Sheep and cattle manure	19	872
	-	3	012
	Limestone and similar materials		
	Fertilizer sold in small packages	67	w
	Other miscellaneous materials	12	
	Check meals and fertilizers	21	
			893
	Totals	597	70, 128

¹ For distribution of this tonnage see next page

Commercial Fertilizers

MIXED FERTILIZER TONNAGE

Grades Approved for Connecticut

Grade	Tons	Grade	Tons
0-15-30 0-20-20 0-25-25 5-10-10 5-20-10 6-3-6 6-8-8 6-12-12 8-6-2 8-12-12 8-16-16 10-5-5	3,088 396 319 6,717 2 2,036 2,301 156 809 489 2,136 966	10-10-10 10-15-15 10-20-20 12-12-12 15-10-10 15-15-15 18-18-18 20-10-5 20-10-10 20-20-20 24-12-12	9,829 484 10 8 3,133 512 3 9 7 36
	Other C	Grades	ŕ
3-1-1 3-2-1 4-16-20 4.75-4-0 5-4-0 5-5-0 5-8-7 5-9-6 5-10-5 6-8-6 6-10-4	56 60 169 62 285 55 611 57 2,674 105 683	6-10-10 7- 7- 7 8- 6- 4 8-10-10 8-12- 6 9- 8- 3 10- 6- 4 12- 5- 7 15- 5- 5 20-10- 5 25-12-10	537 859 917 916 65 59 3,713 263 159 945 88
	(Less than	50 tons)	
3-12-12 4-6-4 4-8-4 4-10-0 4-10-4 5-6-15 5-10-3 5-15-30 5-20-20 6-4-7 6-6-8 6-7-4 6-8-2 6-10-5 7-10-5	11 35 5 37 9 5 10 9 28 14 14 36 15 7	8- 7- 7 10- 8- 2 10-20-10 12- 4- 4 12- 4- 8 12- 6- 4 12-32-12 16- 8- 4 16-11-13 16-32-16 20- 6- 4 23-21-17 25-10- 5 Other grades	9 12 32 8 7 15 16 31 42 6 27 15 5 26
		Total	496
		Grand total	47, 289

I. Materials Chiefly Valuable for Nitrogen

Analyses of 63 official samples of nitrogenous materials are given in Table 1. Fifty-one of these met their guaranties and 12 were deficient. The substandard samples included 10 cottonseed meals and two miscellaneous products ("Borden 38" and "Organo").

II. Materials Chiefly Valuable for Phosphoric Acid

Ten official samples of 20 per cent superphosphate and four of the 46 per cent grade, together with two samples each of dicalcium phosphate and precipitated bone and one of phosphate rock, all met their guaranties. Analyses are given in Table 2.

III. Materials Chiefly Valuable for Potash

Five official samples of muriate of potash, two of cotton hull ashes, and one each of sulphate of potash and sulphate of potash-magnesia, were analyzed; results are given in Table 3. All samples except one of muriate of potash met their guaranties.

IV. Materials Supplying Nitrogen and Phosphoric Acid

This group consists chiefly of dry ground fish and bone meal. Guaranties of "available" phosphoric acid are not required of such natural products, and most of them guarantee only total nitrogen and total phosphoric acid. Seven official samples each of dry ground fish and bone meal, and three of "Milorganite" (a treated sewage sludge), were analyzed in 1961. No deficiency was found. Analyses are given in Table 4.

V. Materials Supplying Nitrogen and Potash

One official sample each of nitrate of potash and nitrate of soda-potash was analyzed; both samples met all guaranties. Analyses are given in Table 3.

VI. Mixed Fertilizers

Commercial Mixtures

Analyses of 280 official samples of mixed fertilizers are given in Table 5. Results are summarized as follows:

Total number of samples		280
Samples deficient in:		
one item	79	
two items	10	
three items	2	91
Percentage of samples meeting	all guaranties	68
Total guaranties made 1		817
Guaranties not met:		
nitrogen	59	
phosphoric acid	22	
potash	24	105
Percentage met		87

Eighty-seven per cent of all guaranties for major components were substantially met or exceeded.

¹ Two hundred and fifty-eight samples with three guaranties, 21 with two guaranties and one with one guaranty (guaranties of minor elements not included).

Twenty-six samples guaranteed between 0.6 and 1.2 per cent of magnesium (mostly 1.2 per cent) in addition to the major components; all exceeded their guaranties. Four samples declared 0.11 per cent, and one 0.30 per cent, of boron; only one sample was actually below guaranty, but two others contained excessive quantities of this element (over four times the claimed amount in one case). Of three samples that guaranteed 0.15 per cent of iron, only one was reasonably close to guaranty; the other two contained respectively 15 and 21 times the amount claimed.

Special and Home Mixtures

Six samples of special and home mixtures were analyzed during the year, mostly for tobacco growers. Seven years ago there were 150 such samples, but of late years there has been a steady decline - partly because the larger growers made private arrangements for testing their own mixes and partly because less tobacco has been grown.

Since the composition of these six samples is not of public interest their analyses are not tabulated in this bulletin.

State Purchases of Fertilizer

Fertilizer materials and mixed goods supplied to State institutions on State purchase orders are regularly included in our annual inspection. Fertilizers so supplied are not exempt from payment of registration fees and tonnage taxes.

Samples representing State purchases are indicated in the several tables. They are summarized as follows:

Materials	No. sampl	
Supplying nitrogen	7	Table l
Supplying phosphoric acid	4	Table 2
Supplying potash	2	Table 3
Supplying nitrogen and phospho	ric acid 1	Table 4
Mixed fertilizers	25	Table 5
Tot	:a1 39	

VII. Miscellaneous

Sheep and cattle manures. Manures must bear guaranties of nitrogen, either total or "available" phosphoric acid, and potash. Of the 17 samples analyzed during the 1960-1961 season, 12 met all guaranties, three were deficient only in nitrogen, one was deficient in potash, and one was low in both nitrogen and potash.

Limestone and similar materials. Because the legal definition of "commercial fertilizers" excludes "marl and lime", no regular inspection of liming materials is made. Occasional samples of limestone, hydrated lime and gypsum ("land plaster") are analyzed for farmers. Analyses of three such samples are given in Table 8.

Fertilizers sold in small packages. Fertilizers sold only in packages of 10 pounds or less net weight are not required to be registered. As a service to home gardeners, however, such brands of small package fertilizers as come to the attention of our agent are sampled and analyzed. During the 1960-1961 season 67 such

samples were analyzed. Fifty-one of these, or 76 per cent, met all guaranties, and 89 per cent of the total of 191 guaranties were met - a slightly higher percentage than that found for fertilizers sold in 100 lb. bags. Analyses are given in Table 7.

Other miscellaneous materials. Twelve other miscellaneous products were examined; analyses are given in Table 8.

Check meals and fertilizers. Collaboration was continued with the various check analysis programs: Nine vegetable meal samples received from the American Oil Chemists' Society were analyzed for nitrogen, and the usual determinations were made on 12 check fertilizers supplied by Law and Company of Atlanta, Georgia.

MAINTENANCE OF GUARANTIES

The maintenance of guaranties as compiled from analyses of ingredient materials and mixed goods (Tables 1-7) is shown in the following tabulation. Deficiencies of 0.1 per cent or less in nitrogen, 0.2 per cent or less in phosphoric acid or potash, and 20 per cent of the claimed value in the case of minor elements, are not counted. The proportion of guaranties substantially met was 88 per cent.

	No. of	No. of	
	samples	guaranties	Deficiencies
Nitrate of ammonia	3	3	0
Nitrate of soda	4	8	0
Cyanamid	2	2	0
Urea	2 9	9	0
Castor pomace	2	2	0
Cottonseed meal	29	29	10
Linseed oil meal	5	5	0
Soybean oil meal	2	2	0
Miscellaneous nitrogenous materi	als 7	7	2
Superphosphate	14	14	0
Precipitated bone	2	2	0
Dicalcium phosphate	2	4	0
Phosphate rock	1	1	0
Muriate of potash	5	5	1
Nitrate of potash	1	2	0
Nitrate of soda-potash	1	3	0
Sulphate of potash	1	1	0
Sulphate of potash-magnesia	1	2	0
Cotton hull ashes	2	2	0
Dry ground fish	7	13	0
Bone meal	7	14	0
"Milorganite"	3	6	0
Mixed fertilizer	280	817	105
Sheep and cattle manure	17	51	6
Small package fertilizers	67	<u> 191</u>	21
Totals	474	1,195	145

TABLE 1.

AN.	ALYSES OF MATERIALS SUPPLYING CHIEFLY	NITR	OGEN
Station No.	Manufacturer or jobber and dealer	Per nitro	cent
		F	G
	NITRATE OF AMMONIA		
3766	AEROPRILLS. American Cyanamid Co., New York, N.Y. State purchase, SouthburyTraining School, Southbury.	33.68	33.50
3 7 9 1	AEROPRILLS. American Cyanamid Co., New York, N. Y. State purchase, CheshireReformatory, Cheshire.	33.72	33.50
4034	AEROPRILLS. American Cyanamid Co., New York, N. Y. Sampledat Eastern States Farmers' Exchange, Inc., Bethel.	34.08	33.50
	NITRATE OF SODA		
3982	Arcadian, Allied Chemical Corp., Nitrogen Div., Hopewell, Va., Sampled at Eastern States Farmers Exchange, Inc., North Haven. Sodium found, 26.50%.	16.12	16.00
3722	Chilean, Chilean Nitrate Sales Corp., New York, N. Y., State purchase, University of Conn., Storrs. Sodium found, 26.20%.	16.20	16.00
3767	Chilean, Champion. Chilean Nitrate Sales Corp., New York, N. Y. State purchase, Southbury Training School, Southbury. Sodium found, 26.11%.	16.04	16.00
3992	Chilean, Champion. Chilean Nitrate Sales Corp., New York, N. Y. Sampled at Eastern States Farmers' Exchange, Inc., North Haven. Sodium found, 26.29%.	16.10	16.00
	CYANAMID		
3792	AERO. American Cyanamid Co., New York, N. Y. State purchase, Conn. Reformatory, Cheshire.	21. 08	21.00
4159	AERO. American Cyanamid Co., New York, N. Y. Sampled at Libner Grain Co. Inc., Norwalk.	21.00	21.00

TABLE 1. ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per o	
S.		F	G
	UREA		
4539	Arcadian, Golden. Allied Chemical Corp., Hopewell, Va. Sampled at Walter W. Simmons & Son, Inc., Granby.	30.02	30.00
3717	AERO. American Cyanamid Co., New York, N.Y. Sampled at Eastern States Farmers' Exchange, Inc., Willimantic.	45, 52	45.00
3313	Cobelaz. Carbochimique, Belgium. Sampled at A.S.T. Corp., Bloomfield.	46.36	46.00
4532	Cobelaz. Carbochimique, Belgium. State purchase, Conn. State Highway Dept., Portland.	46.56	46.00
4033	duPONT Nu Green. E. I. duPont de Nemours & Co., Wilmington, Del. State purchase, Fairfield State Hospital, Newtown.	45.68	45.00
4353	duPONT Nu Green. E.I. duPont deNe:nours & Co., Wilmington, Del. Sampled at New Haven Rendering Co., West Haven.	45.88	45.00
3943	duPONT URAMITE. E.I. duPont deNemours & Co. Inc., Wilmington, Del. Sampled at Cadwell & Jones, Inc., Hartford.	38.48	38.00
3273	duPONT URAMITE M. E. I. duPont deNemours & Co., Wilmington, Del. Sampled at The Hartman Tobacco Co., Bloomfield.	38.07	38.00
3704	Mathieson. Olin Mathieson Chemical Corp., Little Rock, Ark. Sampled at Old Fox Agri- cultural Sales, Inc., Hazardville.	45.76	45.00

TABLE 1.

Station No.	Manufacturer or jobber and dealer	Per o	
Sta		F	G
	CASTOR POMACE		
3311	Baker Castor Oil Co., Bayonne, N.J. Sam- pled at American Sumatra Tobacco Corp., Bloomfield.	5. 58	5.00
3632	Baker Castor Oil Co., Bayonne, N.J. Sampled at Comstock Ferre & Co., Wethersfield.	6.14	5.00
	COTTONSEED MEAL		
4318	Owl 41%. The Brode Corp., Memphis, Tenn. Sampled at H. L. Oppenheimer & Sons, West Suffield.	6.56	6.56
3248	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Cullman Bros. Inc. Farm No. L Simsbury.	6.64	6.56
3250	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Cullman Bros. Inc. Farm No. 1, Simsbury.	6.56	6.56
3257	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway & Steane Corp., West Suffield.	6.38	6.56
3258	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway & SteaneCorp., West Suffield.	6.62	6.56
3263	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at Hatheway & Steane Corp., West Suffield.	6.56	6.56
3312	Cocke-Sure 41%. Cocke & Co., Atlanta, Ga. Sampled at A.S.T. Corp., Bloomfield.	6.76	6.56
3654	Consolidated Rendering Co., Boston, Mass. Sampled at Comstock Ferre & Co., Wethers- field.	6.62	6.00

indicates deficiencies.

TABLE 1.

Station No.	Manufacturer or jobber and dealer	Per o	_
Sta		F	G
3598	Solvent Extracted 41%. John W. Eshelman & Sons, Lancaster, Pa. Sampled at Belmont Feed Co., Cos-Cob.	6.12	6.56
4163	F & B. Faesy & Besthoff, Inc., New York, N. Y. Sampled at Silliman's Inc., New Canaan.	6.68	6.00
3249	Golden Rod 41%. Goldenrod Oil Meal Sales Co., Memphis, Tenn. Sampled at Cullman Bros. Inc., Farm No. 1, Simsbury.	6.58	6.56
3930	G & O. Goulard & Olena Inc., Skillman, N.J. Sampled at Cadwell & Jones, Inc., Hartford.	6.56	6.56
3256	Dixie Brand 41%. Humphreys-Godwin Co., Memphis, Tenn. Sampled at Hatheway & Steane Corp., West Suffield.	6.22	6.56
3269	Dixie Brand 41%. Humphreys-Godwin Co., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield.	6.56	6.56
3270	Dixie Brand 41%. Humphreys-Godwin Co., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield.	6.94	6.56
3271	Dixie Brand 41%. Humphreys-Godwin Co., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield.	6.36	6.56
3318	Dixie Brand 41%. Humphreys-Godwin Co., Memphis, Tenn. Sampled at L.B. Haas & Co., Hazardville.	6.20	6.56
3320	Dixie Brand 41%. Humphreys-Godwin Co., Memphis, Tenn. Sampled at L.B. Haas & Co., Hazardville.	6.32	6.56
3268	Lovit Brand 41%. L.B. Lovitt & Co., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield.	6.92	6.56

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per nitro	
St		F	G
3274	Lovit Brand 41%. L.B.Lovitt & Co., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield.	6.66	6.56
3310	Lovit Brand 4!%. L.B.Lovitt & Co., Memphis, Tenn. Sampled at The Hartman Tobacco Co., Bloomfield.	6.70	6.56
3319	Lovit Brand 41%. L.B.Lovitt & Co., Memphis, Tenn. Sampled at L.B.Haas & Co., Hazardville.	6.06	6.56
3317	Lovit Brand 41%. L.B.Lovitt & Co., Memphis, Tenn. Sampled at L.B.Haas & Co., Hazardville.	6.56	6.56
3255	41%. Mississippi Oil Mills, Inc., Greenville Plant, Greenville, Miss. Sampled at Hatheway-Steane Corp., West Suffield.	6.32	6.56
3264	41%. Mississippi Oil Mills, Inc., Greenville Plant, Greenville, Miss. Sampled at Hatheway & Steane Corp., West Suffield.	6.56	5.56
3265	41%. Mississippi Oil Mills, Inc., Greenville Plant, Greenville, Miss. Sampled at Hatheway & Steane Corp., West Suffield.	6.56	6.56
3314	Expello 41%. Riverside Oil Mill, Marks, Miss. Sampled at A.S.T. Corp., Bloomfield,	6.02	6.56
3315	Expello 41%.Riverside Oil Mill, Marks, Miss. Sampled at A.S.T. Corp., Bloomfield.	6.28	6.56
3316	Expello 41%. Riverside Oil Mill, Marks, Miss. Sampled at A.S.T. Corp., Bloomfield.	6.72	6.56

indicates deficiencies.

TABLE 1.

Station No.	Manufacturer or jobber and dealer	Per cent nitrogen	
Str		F	G
	LINSEED OIL MEAL		-
3254	Spencer Kellogg 32%. Spencer Kellogg & Sons Inc., Minneapolis, Minn. Sampled at Hatheway & Steane Corp., West Suffield.	5.88	5.12
3247	Sherwin-Williams 34%. Sherwin-Williams Co., Cleveland, Ohio. Sampled at Cullman Bros. Inc., Farm No. 1, Simsbury.	5.66	5.44
3253	Sherwin-Williams 34%. Sherwin-Williams Co., Cleveland, Ohio. Sampled at Cullman Bros. Inc., Farm No. 3, Granby.	5.56	5.44
3272	Sherwin-Williams 34%. Sherwin-Williams Co., Cleveland, Ohio. Sampled at The Hartman Tobacco Co., Bloomfield.	5.62	5.44
3309	Sherwin-Williams 34%. Sherwin-Williams Co., Cleveland, Ohio. Sampled at The Hartman Tobacco Co., Bloomfield.	5.70	5.44
	SOYBEAN OIL MEAL		
3251	Staley's 44%. Staley Mfg. Co., Decatur, Ill. Sampled at Cullman Bros. Inc., Farm No. 1, Simsbury.	7.38	7.04
3252	Staley's 44%. A.E.Staley Mfg. Co., Decatur, Ill. Sampled at Cullman Bros, Inc. Farm No. 3, Granby.	7.22	7.04
	MISCELLANEOUS		
3903	Agrinite. The American Agricultural Chemical Co., New York, N.Y. Sampled at Plantland on the Parkway, Buckland.	7.58	7.00
4358	Purge. Asgrow Seed Co., New Haven, Conn. Sampled at Asgrow Seed Co., Milford.	4.32	4.00

TABLE 1.

ANALYSES OF MATERIALS SUPPLYING CHIEFLY NITROGEN

Station No.	Manufacturer or jobber and dealer	Per nitr	cent ogen
Sta		F	G
3589	Borden "38". The Borden Co., Chemical Div., New York, N.Y. Sampled at Mc Ardle's Seed Co., Greenwich.	37.76	38.00
4162	Dried Blood. Brookside Nurseries, Inc., Darien, Conn. Sampled at Brookside Nurseries Inc., Darien.	12.50	12.50
4545	Lawn Weed Killer. The Garden Center, Inc., West Hartford, Conn. Sampled at The Garden Center Inc., West Hartford.	25.52	25.00
4387	Organo. Old Fox Agricultural Sales Inc., East Providence, R.I. Sampled at Old Fox Agricultural Sales, Inc., Hazardville,	4.76 ~~~	5.00
3509	Bonus Weed & Feed. O. M. Scott & Sons Co. Marysville, Ohio. Sampled at Bacon Bros., Inc., Middletown.	26.52	25.00

TABLE 2. ANALYSES OF SUPERPHOSPHATE, ETC.

קי	=			00	00	00	00	00	00	20.00	
c aci	lable	ט		20.00	20.00	20.00	46.00	46.00	46.00	20.	
osphori	"Available"	ম		21.00	20.63	20, 55	46.30	48.10	47.35	20.67	
Per cent phosphoric acid		Total		21, 45	20.80	20.70	46.30	48.30	48.40	21.00	
Pe	Citrate	insoluble		0.45	0.17	0,15	00.0	0.20	1.05	0,33	
	Manufacturer or jobber and dealer		SUPERPHOSPHATE	Agri-Phos. American Agricultural Chemical Co., New York, N.Y. Sampled at McArdle's Seed Co., Greenwich.	Agri-Phos. American Agricultural Chemical Co., New York, N.Y. State purchase, Osborn Prison Farm, Enfield.	Agri-Phos, American Agricultural Chemical Co., New York, N.Y. State purchase, Conn. State Farm for Women, Niantic.	3397 Trebo-Phos. American Cyanamid Co., New York, N.Y. Sampled at Cullman Bros. Inc., Farm No. 1, Simsbury.	Trebo-Phos. American Cyanamid Co., New York, N.Y. Sampled at The Hartman Tobacco Co., Bloomfield.	Trebo-Phos. American Cyanamid Co., New York, N.Y. State purchase, Conn. State Highway Dept., Portland.	20%. Consolidated Rendering Co., Boston, Mass. Sampled at The A. E. Shedd Co., Inc., Norwich.	
u	oits: .oV	S		3590	3698	4411	3397	3484	4533	3900	

3765	20%. Consolidated Rendering Co., Boston, Mass. State purchase, Southbury Training School, Southbury.	06.0	22.45	21.55	20.00
3401	20%. Eastern States Farmers Exchange, Inc., W. Springfield, Mass. Sampled at Walter W. Simmons & Son, Inc., Granby.	0, 60	21.35	20.75	20.00
3708	20%. Davison Chemical Co., Baltimore, Md. Sampled at Checker-board Feed Store, Willimantic.	1.05	22.40	21.35	20.00
3486	20%. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A.S.T. Corp., Bloomfield.	1.00	21.20	20.20	20.00
4009	20%. Old Fox Agricultural Sales, Inc., E. Providence, R.I. Sam-pled at Old Fox Agricultural Sales, Inc., Hazardville.	0.20	21.20	21.00	20.00
3974	20%. Olin Mathieson Chemical Corp., Baltimore, Md. Sampled at Gardener's Center, Inc., Darien.	1.05	23.20	22, 15	20.00
3996	3996 46%. U.S. Phosphoric Products Div. Tenn. Corp., Tampa, Fla. Sampled at Eastern States Farmers' Exchange Inc., Buckland.	1.30	47.60	46.30	46.00
	PRECIPITATED BONE PHOSPHATE				
3395	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros. Inc., Farm No. 1, Simsbury.	0.05	46.50	46.45	42.00
3398	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros. Inc., Farm No. 3, Granby.	1.80	45.40	43.60	42.00

TABLE 2. ANALYSES OF SUPERPHOSPHATE, ETC.

Manufacturer or jobber and dealer Citrate DI CALCIUM PHOSPHATE 3403¹ Eastman Gelatine Corp., Peabody, Mass. Sampled at Hatheway & C.15 46.50 46.35 42.40 Bloomfield. PHOSPHATE ROCK 3771 The American Agricultural Chemical Co., No. Weymouth, Mass. Sampled at H. S. Coe & Co. Inc., Waterbury.
Eastman Gelatine Corp., Peabody, Mass. Sampled at A.S.T. Corp., Bloomfield. The American Agricultural Chemical Co., No. Weymouth, Mass. Sampled at H. S. Coe & Co. Inc., Waterbury. Manufacturer or jobber and dealer Citrate insoluble Citrate insoluble Citrate insoluble Total A6.50 46.50 44.50 44.50 26.48 31.40³
Eastman Gelatine Corp., Peabody, Mass. Sampled at A.S.T. Corp., Bloomfield. The American Agricultural Chemical Co., No. Weymouth, Mass. Sampled at H. S. Coe & Co. Inc., Waterbury.
Eastman Gelatine Corp., Peabody, Mass. Sampled at A.S.T. Corp., Bloomfield. The American Agricultural Chemical Co., No. Weymouth, Mass. Sampled at H. S. Coe & Co. Inc., Waterbury.
Eastman Gelatine Cor Steane Corp., West S Eastman Gelatine Cor Bloomfield.
348 34 Station No.

Connecticut Experiment Station

¹ Calcium: Found, 25.33%; Guaranteed, 25.00%.

Calcium: Found, 25.52%; Guaranteed, 25.00%.

³ Guaranteed, 31.0%.

TABLE 3. ANALYSES OF POTASH SALTS, ETC.

Station No.	Manufacturer or jobber and dealer	Per	cent ash
Sta		F	G
	MURIATE OF POTASH		
3697	Consolidated Rendering Co., Boston, Mass. State purchase, Osborn Prison Farm, Enfield.	58.04	60.00
3485	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at A.S.T.Corp., Bloomfield.	60.64	60.00
3993	International Minerals Chemical Corp., Skokie, Ill. Sampled at Eastern States Far. Exchange Inc., North Haven.	60.24	60.00
4535	International Minerals & Chemical Corp., Skokie, Ill. State purchase, Conn. State Highway Dept., Portland.	60.04	60.00
3706	Old Fox Agricultural Sales Inc., East Providence, R.I. Sampled at Old Fox Agricultural Sales, Inc., Hazardville.	60.40	60.00
	NITRATE OF POTASH		
3481 ¹	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.	45.60	44.00
	NITRATE OF SODA-POTASH		
4257 ²	Chilean Nitrate Sales Corp., New York, N.Y. Sampled at The Hubbard-Hall Chemical Co., Windsorville.	14.50	14.00
	SULPHATE OF POTASH		
3477	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Cullman Bros. Inc., Farm No. 1, Simsbury.	49.20	48.00
	SULPHATE OF POTASH AND MAGNESIA		
3482 ³	International Minerals & Chemical Corp., Skokie, Ill. Sampled at The Hartman To- bacco Co., Bloomfield.	22.06	21.00

TABLE 3. ANALYSES OF POTASH SALTS, ETC.

Station No.	Manufacturer or jobber and dealer	Per pot	
St		F	G
	COTTON HULL ASHES		
3480	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.	38.18	unit basis
3483	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hartman Tobacco Co., Bloomfield.	35.86	unit basis

¹ Nitrogen: Guaranteed, 11.0%; found, 13.36%.

² Nitrogen: Guaranteed, 15.0%; found, 15.0%. Sodium: Guaranteed, 18.0%; found, 18.05%.

³ Magnesium: Guaranteed, 11.0%; found, 11.35%.



TABLE 4. ANALYSES OF GROUND FISH, BONE, ETC.

Mechanical analysis (per cent)	Coarser than								
Mech ana (per	Finer than 1,50 inch								
Per cent phosphoric acid	Toto T beed guaranteed		5.00	5.00	5.00	5.00	5.00	5.00	
Per phosp ac	bnuol IstoT		6.39	6.25	6.45	6.67	6.20	6.45	6.30
Per cent nitrogen	Total guaranteed		9.50	9.50	9.50	9.50	09.6	09.6	9.60
Per cent nitrogen	bnuol ls to T		10.60	10.54	10.56	10.64	10.58	10.44	10.58
	Manufacturer or jobber and dealer	DRY GROUND FISH	The Hubbard-Hail Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Hatheway & Steane Corp., West Suffield.	The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hartman Tobacco Co., Bloomfield.	Wilbur-Ellis Co., New York, N.Y. Sampled at Cullman Bros. Inc., Farm No. 1, Simsbury.	Wilbur-Ellis Co., New York, N.Y. Sampled at Cullman Bros. Inc., Farm No. 3, Granby.	Wilbur-Ellis Co., New York, N.Y. Sampled at Cullman Bros. Inc., Farm No. 1, Simsbury.
•0	M noitst2		3402	3404	3405	3406	3396	3399	3478

BONE MEAL Consolidated Rendering Co., Boston, Mass. Sampled at Checkerboard Feed Store, Willimantic. Consolidated Rendering Co., Boston, Mass. State purchase, Danbury Teachers College, Danbury. Faesy & Besthoff, Inc., New York, N. Y. Sampled at Hubbard-Hall Chemical Co., Greenwich. Lebanon Chemical Corp., Lebanon, Pa. Sampled at Leon Ezzell, Inc., Stamford. Libner Grain Co. Inc., Norwalk, Conn. Sampled at Sears, Roebuck & Co., Chicago, Ill. Sampled at Sears, Roebuck & Co., Sampled at Clapboard Hill Feed Co., Null ORGANITE The Sewerage Commission of the City of Milwaukee, Milc. New Canaan. Sewerage Commission of the City of Milwaukee, Milc. New Canaan. Sewerage Commission of the City of Milwaukee, Milc. Sampled at Birchville Garden Center, Plainville. 5. 56 5. 50 6.00 4. 50 6.00 4. 60 6.0	ı								•
2. 22 2. 00 25. 48 22. 00 60. 0 2. 00 2. 00 28. 60¹ 22. 00 63. 0 2. 54 2. 47 27. 15 23. 00 57. 0 2. 74 2. 00 24. 85 23. 00 60. 0 2. 60 2. 30 29. 00² 20. 00 62. 0 2. 80 2. 47 26. 90 23. 00 67. 0 2. 80 2. 00 25. 85³ 23. 00 62. 0 5. 86 5. 50 3. 95⁴ 4. 50⁵ 5. 58 5. 00 4. 50⁵		BONE MEAL							
2.00 28.60¹ 22.00 63.0 2.54 2.47 27.15 23.00 57.0 2.74 2.00 24.85 23.00 60.0 2.60 2.30 29.00² 20.00 62.0 2.58 2.47 26.90 23.00 67.0 2.80 2.00 25.85³ 23.00 67.0 5.86 5.50 4.50⁵ 4.50⁵ 5.76 5.50 4.50⁵ 4.50⁵ 5.58 5.00 4.50⁵	30	onsolidated Rendering Co., Boston, Mass. Sampled at heckerboard Feed Store, Willimantic.	2.22	2.00	25, 48	22.00	0.09	40.0	
2.54 2.47 27.15 23.00 57.0 2.74 2.00 24.85 23.00 60.0 2.60 2.30 29.00² 20.00 62.0 2.58 2.47 26.90 23.00 67.0 2.80 2.00 25.85³ 23.00 62.0 5.86 5.50 3.95⁴ 4.50⁵ 5.76 5.50 4.50⁵ 4.50⁵ 5.58 5.00 4.50⁵	ပိ		2.00	2.00	28.601	22.00	63.0	37.0	
2.74 2.00 24.85 23.00 60.0 2.60 2.30 29.00² 20.00 62.0 2.58 2.47 26.90 23.00 67.0 2.80 2.00 25.85³ 23.00 62.0 5.86 5.50 3.95⁴ 62.0 5.76 5.50 4.50⁵ 5.58 5.00 4.50⁵	<u> </u>		2.54	2.47	27.15	23.00	57.0	43.0	
2.60 2.30 29.002 20.00 62.0 2.58 2.47 26.90 23.00 67.0 2.80 2.00 25.85³ 23.00 62.0 5.86 5.50 3.95⁴ 5.76 5.50 4.50⁵ 5.58 5.00 4.50⁵	耳一	Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Gardener's Center Inc., Darien.	2.74	2.00	24.85	23.00	0.09	40.0	Con
2.58 2.47 26.90 23.00 67.0 2.80 2.00 25.85³ 23.00 62.0 5.86 5.50 3.95⁴ 8.50 4.50⁵ 5.76 5.50 4.50⁵ 4.50⁵ 5.58 5.00 4.50⁰	H	Lebanon Chemical Corp., Lebanon, Pa. Sampled at Leon Ezzell, Inc., Stamford.	2.60	2,30	29, 002	20.00	62.0	38.0	
2.80 2.00 25.85³ 23.00 62.0 5.86 5.50 3.95⁴ 5.76 5.50 4.50⁵ 5.58 5.00 4.50⁵	ᆈ	Libner Grain Co. Inc., Norwalk, Conn. Sampled at Libner Grain Co. Inc., Norwalk.	2.58	2.47	26.90	23.00	67.0	33.0	
5.86 5.50 5.76 5.50 5.58 5.00	Ω [Sears, Roebuck & Co., Chicago, Ill. Sampled at Sears, Roebuck & Co., Hamden.	2.80	2.00	25, 853	23.00	62.0	38.0	
5.86 5.50 5.76 5.50 5.58 5.00		MILORGANITE							
5.76 5.50 5.58 5.00	3829 T	The Sewerage Commission, Milwaukee, Wisc. Sampled at Derby Feed Store, Derby.	5.86	5.50	3,954				
5,58 5,00	S	Sewerage Commission of the City of Milwaukee, Mil-waukee, Wisc. Sampled at Clapboard Hill Feed Co., New Canaan.	5. 76	5.50	4, 505				
	3810 Se	Sewerage Commission of the City of Milwaukee, Milwaukee, Wisc. Sampled at Birchville Garden Center, Plainville.	5.58	5.00	4.506				4

4 "Available" phosphoric acid: G., 3.00; F., 3.02 ⁵ "Available" phosphoric acid: G., 4.00; F., 3.95 ⁶ "Available" phosphoric acid: G., 4.00; F., 3.95 G., 15.00; F., 17.40 G., 15.00; F., 19.50 G., 14.00; F., 17.55 "Available" phosphoric acid: "Available" phosphoric acid: "Available" phosphoric acid: TABLE 5 ANALYSES OF MIXED FERTILIZERS

	TABLE 5. ANALYSES OF MIXED FE	RTILIZERS
Station No.	Manufacturer and brand	Place of sampling
4037	A-PENN OIL CO. Butler, Pa. Marvel Green Lawn Builder Complete Lawn Food 20-10-5 AGRICULTURAL PRODUCTS CO. W. Kingston, R.I.	Danbury
4328 3580 3579 3723 3661 3662	APCO Organic Lawn Food Blue Ribbon 5-10-5 Fertilizer Lawn- Garden Golden Comet 8-6-4 Lawn Food Guardian Gro-Green Lawn Fertilizer 8-6-4 Super Turf King 8-6-4 Lawn Food Turf King Lawn & Garden Fertilizer 6-10-4 AGRICULTURAL SUPPLY CO.	New Britain Branford Branford Willimantic Milford Milford
3575	West Haven, Conn Yale Special Mixture 8-6-2 THE AMERICAN AGRICULTURAL CHEMICAL CO. N. Weymouth, Mass	Hamden
3772 3597 3720 ¹ , 3899 ¹ , 4409 ¹ , 3718 ¹ 4007 4538 3696 ¹ 3801 3976 4004 4003	Magnesium	Waterbury Cos-Cob Storrs Norwich Niantic Storrs Rockville Windsor Locks Enfield Southington Darien Rockville Rockville

State purchase.

² Magnesium: Guaranteed, 1.2%; found, 1.99%.

				illin, i	1		ACID, A		
		itroge er cer		.		sphoric per cen		Pota per c	
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
0.40	6.52	11.68	2. 24	20.84	0.38	10.70	10.32	0.19	5.19
0.18	0.00	0.24	5.14	5. 56	1.20	6.05	4.85		
0.14	5.44 5.52	0.04	0.32	5. 94 8. 00	0.12	9.70 7.27	9.58 7.12	4. 04 2. 90	5.10 4.18
0.96 0.10	6.48 5.64	0.88	0.00	8.32 8.44	0.30	6.80 6.77	6.50 6.52	3.16 2.34	4. 21 4. 02
0.28	5.96	0.20	0.10	6.54	0. 05	10.97	10.92	2.84	4.30
0.36	4.96	2.76	0.42	8.50	0.20	7.20	7.00	1.30	2.40
0.20	4.36 3.80	0.12	0.10	4.72 5.54	0.40 0.30	10.75 10.30	10.35 10.00	1.46 7.17	5.38 10.04
0.00	5.04	0.30	0.00	5.34	0.45	10.87	10.42	7.91	10.01
0.00	4.96	0.12	0.10	5.18	0.40	11.10	10.70	7.87	10.15
0.00 1.64 1.80 0.72 1.85 2.14 0.00 0.00 1.67	4. 96 5. 48 5. 60 7. 76 7. 28 7. 72 5. 16 5. 64 7. 44	0.12 0.08 0.56 0.40 0.52 0.12 0.48 5.88 0.24	0.20 0.00 0.10 0.30 0.35 0.10 0.36 0.62 0.11	5. 28 7. 20 8. 06 9. 18 10. 00 10. 08 6. 00 12. 14 9. 46	0.45 0.35 0.50 0.30 0.15 0.30 0.57 0.40 0.30	10.77 7.72 20.06 7.35 10.85 10.57 10.30 4.70 15.35	10.32 7.37 19.56 7.05 10.70 10.27 9.73 4.30 15.05	7.80 4.67 13.32 2.38 8.61 6.41 0.46 6.35 11.62	10.12 7.16 16.08 4.36 10.22 10.37 4.57 8.05 15.11

³ Magnesium: Guaranteed, 1.20%; found, 2.05%.

⁴ Magnesium: Guaranteed, 1.20%; found, 1.45%.

TABLE 5. ANALYSES OF MIXED FERTILIZERS

	TABLE 5. ANALYSES OF MIXED FE	RIILIZERS
Station No.	Manufacturer and brand	Place of sampling
3954 3592	Agrico for Gardens 5-10-5 Agrico for Lawns, Trees & Shrubs	Stamford
	6-10-4	Greenwich
3795	Agrico for New England 5-8-7	Southington
38025		Southington
	Magnesium	8
3587	Agrico for Turf Grass Food 10-6-4	Greenwich
3800	Agrico for Turf with Urea-Form 10-6-4	
3953	Agrico Insect Control with Fertilizer	200000000000000000000000000000000000000
0,00	5-9-6	Stamford
3674	Agrico Rose Food 5-9-6	Bridgeport
4005	Agrico Seeding Down 5-20-20	Rockville
4006	Agrico Top Dressing 15-10-10	Rockville
3596	Agrico Weed Control with Fertilizer	16061671116
] 3370	5-9-6	Cos-Cob
3831	Homestead Complete Grass Fertilizer	
3832		Bridgeport
3634	Homested Farm Style Multi-Purpose Fertilizer 5-10-5	Bridgeport
	ARMOUR AGRICULTURAL CHEM- ICAL CO. Carteret, N.J.	
3807	Armour Armorganic Plant Food 5-5-0	Plantsville
3804	Armour Big Crop Fertilizer 5-8-7	Plantsville
4202	Armour Big Crop Fertilizer 5-10-5	Vernon
3806	Armour Big Crop Fertilizer 5-10-10	Plantsville
4203	Armour Home & Garden Special 5-10-5	Vernon
4200	Armour Lawn Special 10-6-4	Vernon
4184	Armour Vertagreen Complete Plant	, 5251.
	Foodfor Commercial Crops 6-8-8	Vernon
4198	Armour Vertagreen Complete Plant	
	Food for Commercial Crops 6-12-12	Vernon
4187	Armour Vertagreen Complete Plant Food for Commercial Crops 10-10-10	Vernon
4189	Armour Vertagreen for Acid Loving	
4305	Plants 5-10-10	Vernon
4185	Armour Vertagreen for Lawns &	V
2002	Gardens 5-10-5	Vernon
3803	Armour Vertagreen Plant Food 5-10-5 with 2.4-D Weed Killer	Plantsville

indicates deficiencies.

Magnesium: Guaranteed, 1.20%; found, 1.68%.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

	N	itroge:	n,		Pho	sphoric	•	Pota per c	sh,
Nitrate	Ammoniacal	Water- soluble	Water- in soluble	Total	Citrate- insoluble	T otal	So-called "available"	As muriate	T otal
0.00	3.96	1.04	0.46	5.46	0.45	10.90	10.45	4.09	5.38
0.15	3.28 5.28 3.44	2.69 0.00 0.08	0.33 0.17 0.11	6.30 5.60 5.00	0.35 0.33 0.38	10.90 8.80 10.40	10.55 8.47 10.02	3.01 6.76 6.61	4.21 8.54 10.12
0.35	2.48 3.68	4.44 3.16	2.91 3.37	10.18	0.30 0.20	6.32 6.45	6.02 6.25	2.93 2.55	4.05 4.62
0.00 0.48 1.52 2.48	2.52 3.04 3.88 6.08	2.52 1.68 0.04 6.24	0.42 0.58 0.00 0.20	5. 46 5. 78 5. 44 15. 00	0.85 0.47 0.45 0.38	9.90 9.30 20.60 10.70	9.05 8.83 20.15 10.32	3.33 4.85 15.64 6.69	6.35 6.52 20.13 10.04
0.00	2.88	2.04	0.87	5.79	0.50	9.50	9.00	4.74	6.04
0.34	7. 24	1.20	0.78	2.43	0.60	7.15	6.55	3.28	4.27
0.33	4.52	0.20	0.25	5.30	0.30	10.40	10.10	4.01	5.07
0.27 0.40 0.56 0.54	0. 24 3. 76 4. 56 4. 40		4.29 0.16 0.00 0.00	5.00 4.56 5.36 5.02			5.50 8.70 11.02 10.05	4.97 3.64 6.99	7.68 6.24 10.30
0.46	4.96 7.28	0.00 1.60	0.14	5.56 2.32	0.85 0.45	12.05	11.20 7.40	2.54 1.00	5.31 4.59
0.54	5.60	0.08	0.10	6.32	0.95	11.50	10.55	6. 29	11.03
0.72	5.12	0.16	0.00	6.00	1.30	13.65	12.35	6.39	12.58
0.60	6.96	1.92	0.00	2.48	0.45	10.80	10.35	4.24	2.18
0.50	3.28	0.64	0.94	5.36	0.60	11.20	10.60	9.44	10.12
0.32	4.80	0.16	0.00	5.28	0.85	10.92	10.07	0.86	5.16
0.42	4.60	0.08	0.30	5.40	0.40	10.20	9.80	1.65	5.63

TABLE 5. ANALYSES OF MIXED FERTILIZERS

	TABLE 5. ANALYSES OF MIXED FE	KIIDIZEKS
Station No.	Manufacturer and brand	Place of sampling
4199 4201 4186 4205 4188	Armour Vertagreen Plant Food for Commercial Crops 3-12-12 Armour Vertagreen Plant Food for Com- mercial Crops Tobacco Special 6-4-7 Armour Vertagreen Plant Food for Turf & Trees 10-6-4 Armour Vertagreen Rose Food 5-10-5 Armour Vertagreen 8-6-2 Turf Form- ula (50% Organic Nit.)	Vernon Vernon Vernon East Windsor Vernon
4183	Armour Vertagreen Turf Food with Chlordane 10-6-4 ASGROW SEED CO. New Haven, Conn.	Vernon
4360 3975 4359	Asgrow Weed-Nix Lawn Food=2, 4. D Asgrow Gro-Sod Lawn Food 15-5-5 Asgrow Gro-Sod Lawn Food 15-5-5 F. A. BARTLETT TREE EXPERT Co., Stamford, Conn.	Milford Darien Milford
4182	Bartlett Green Tree Food 6-8-6 BENNETT. & CLAYTON DIV., UN- EXCELLED CHEMICAL CORP. Cranbury, N.J.	Stamford
3946	B/C Fertilizer 5-10-5 (25% Organic Nitrogen) BOOHER LUMBER CO. Syracuse, N.Y.	West Hartford
4052	Timberturf JOSEPH BRECK & SONS Boston, Mass.	Branford
3808	Breck's New Improved Turf-Gro 20-6-4 Breck's Turf-Gro 8-6-2 BROOKSIDE NURSERIES, INC. Darien, Conn.	Plainville Hamden
4161	Brookside's Natures Nutrients 6-6-8	Darien

	N	itroge	n,	,211,	Pho	sphoric per cen		Pota per c	sh,
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
				3.24	0.07	13.10	13.03	9.93	12.39
0.98	2.96	1.52	0.54	6.00	0.75	5.65	4.90	1.10	7.61
0.36	6.72 3.60	1.76 0.16	1.40 1.06	10.24 5.44	0.65 0.78	7.35 12.25	6.70 11.47	2. 27 2. 15	4.75 5.57
0.50	2.88	0.56	3.70	7.64	1.00	7.20	6.20	1.53	2.37
0.26	7.84	1.04	1.46	10.60	0.55	6.20	5.65	2.89	3.64
0.63 0.38 0.72	3.68 4.56 3.04	6.08 6.40 7.52		13,45 15.00 15.04	0.85 0.25 0.80	7.30 5.32 5.90 8.55	6.45 5.07 5.10	0.92 0.16	5.38 6.28 5.28
0.99	2.64	0.08	1.99	5.70 1.08	0.88	12.00 0.20	0.15	0.54	6.83 0.47
0.87	1	12.36 0.56		19, 32 7, 28 ~~~~	0.33	6.55 7.45	6. 22 6. 90	2.70 2.35	4.81 4.24
0.18	0.00	0.72	4.66	5.56	0.90	10.80	9.90	0.94	6.72

TABLE 5. ANALYSES OF MIXED FERTILIZERS

	TABLE 3. ANALISES OF MIXED FE.	TO THE PROPERTY OF THE PROPERT
Station No.	Manufacturer and brand	Place of sampling
3441	W. ATLEE BURPEE CO. Philadelphia, Pa. Burpee Lawn Food 20-10-5 CADWELL & JONES, INC.	Shelton
3927 3939 3928	Hartford, Conn. C & J Hi Organic 10-6-4 Fertilizer C & J Lawn Food-Weed Killer 20-10-5 C & J Plant Food 5-10-5	Hartford Hartford Hartford
3944	PETER CASCIO NURSERY West Hartford, Conn. Cascio's High Organic 10-6-4 Lawn Food Cascio Professional 5-10-5 Lawn Food CONSOLIDATED RENDERING CO. Boston, Mass.	West Hartford West Hartford
4032 ¹ , ⁷ 4382 4410 ¹ 3768 ¹ , ⁸	Corenco 0-15-30 Fertilizer Corenco 0-15-30 with 0.11 Boron Corenco 0-15-3011 Corenco 0-20-20 Fertilizer Corenco 0-20-20 Fertilizer Corenco 0-20-2011 Corenco 0-20-20 Fertilizer Corenco 5-8-7 Fertilizer Corenco 5-8-7 Fertilizer Corenco 5-10-5 Corenco 5-10-10 Fertilizer Corenco Fertilizer 5-10-10 Corenco Fertilizer 5-10-10 Corenco Fertilizer 5-10-10-1.2 Magnesium Corenco 7-7-7 Fertilizer Corenco 8-12-129 Fertilizer	Plantsville Storrs Newtown Springfield, Mass Niantic Southbury Cheshire New Haven Waterbury Milford Cheshire Meriden West Haven Southbury Cheshire Springfield, Mass

State purchase.

⁶ Boron: Guaranteed, 0.11%; found, 0.48%.

⁷ Boron: Guaranteed, 0.11%; found, 0.053%.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

		itroge er cer	n,		1	sphoric	acid,	Pota per c	sn,
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
0.72	9.60	5.36	5.12	20.80	0.05	10.35	10.30	1.86	5.50
0.26 0.19 1.40	3.24 2.96 3.96			8.80 17.64 5.62	0.35 0.53 0.33	11.15	7.42 10.62 10.84	2.96 2.63 3.84	5.47 5.28 5.47
0.98	3.92	3.12 2.56	1.36 0.29	9.38 5.44	0.30	7.45 10.15	7.15 2.65	2.60 4.66	5.28 6.11
1.51 1.36 1.42 1.07 1.44 1.20 1.57 1.04 1.82	3.80 3.96 4.32 4.28 3.92 3.68 5.56 5.64 5.92	0.00 0.08 0.04 0.60 0.16 0.40 0.56 0.40	0.05 0.12 0.00 0.33 0.16 0.00 0.17 0.10	5.32 5.52 5.78 6.28 5.68 5.28 7.54 7.34 8.24	0.20 0.27 0.35 0.43 0.30 0.20 0.07 0.33 0.10 0.35 0.35	15.30 15.40 20.60 20.00 20.00	14.10 15.03 15.05 20.17 19.70 18.55 8.23 8.73 10.67 11.20 10.17 10.27 7.83 8.15 12.35	22. 75 22. 43 12. 44 17. 58 17. 40 15. 52 15. 99 1. 30 5. 23 5. 55 2. 55 4. 73 7. 49 6. 77 5. 18 9. 75	25.40 26.00 27.32 20.13 20.45 19.30 20.06 7.71 7.68 8.49 8.39 10.15 10.04 8.37 7.61 12.27

⁸ Boron: Guaranteed, 0.11%; found, 0.13%.

⁹ Boron: Guaranteed, 0.11%; found, .080%.

¹⁰ Magnesium: Guaranteed, 1.20%; found, 1.80%.

¹¹ Magnesium: Guaranteed, 0.90%; found, 1.08%.

TABLE 5. ANALYSES OF MIXED FERTILIZERS

37691	MIXED FERTILIZERS
40301	and Place of sampling
3609 Davey Tree Food 12-4-4 Old	Newtown West Haven Newtown Portland Wethersfield Southbury New Britain West Suffield Thompsonville New Haven West Haven West Haven Springfield,Mass Cheshire New Haven West Haven West Haven New Haven West Haven West Haven West Haven West Haven West Haven New Haven West Haven West Haven West Haven New Haven New Haven West Haven New Haven New Haven West Haven New Haven
	Old Greenwich

¹ State purchase.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

		itroge er cen	n,		Pho	sphoric	acid,	Pota per c	sh,
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
1.51 1.92 1.90 1.70 1.68 0.16 0.25	5. 04 5. 92 6. 16 8. 16 6. 40 5. 04 5. 32	0.24 0.16 0.24 0.32 1.89 4.16 1.92	0.11 0.00 0.14 0.00 0.08 1.00 2.11	6.90 8.00 8.44 10.18 10.00 10.36 9.60	0.30 0.40 0.35 0.30 0.15 0.20 0.35	16.10 16.45 15.10 10.65 10.27 6.80 7.60	15.80 16.05 14.75 10.35 10.12 6.60 7.25	10.01 15.44 12.14 0.48 6.53 3.76 5.47	16.08 16.26 16.20 10.26 10.40 4.68 7.93
0.76	5.76	2.56	1.36	10.44	0.45	8.50	8.05	5.95	7.98
1.20 1.17 0.08	8.40 3.40 4.64	0.48 0.12 3.04	0.00 0.11 0.56	10.08 4.80 8.32	0.28 0.22 0.12	6.57 10.52 6.40	6.29 10.30 6.28	2. 22 3. 85 3. 13	4.46 5.38 4.55
0.00	3.20	1.96		5.16		10.05	10.05	9.99	10.44
0.08	1.60 0.24 0.00	7.98 0.43 0.80	4.85 4.20	9.66 5.52 5.00	0.90	5.00 6.87 6.50	5.00 5.97 5.67	5.00	5.00
0.44	0.00	2.40	3.16 0.13	6.00 5.62	0.20 0.13	4.20 9.40	4.00 9.27	0.17 5.66	6.07 8.69
1.20 1.55	3.96 6.64	0.24	0.10	5.50 8.54	0.22	10.40	10.18 11.42	7.53 8.91	9.76 10.48
0.00	5.44 2.72	0.08	1.64	7.16 5.80 3.64	0.30	8.12 12.20 3.40	7.82 11.17	5.50 4.97	7.61 5.25 2.70
0.80	2.08 4.20	3. 20 1. 36	4.52 2.70	10.60	0.25	8.10 6.30	7.85 6.30	2.79 3.40	3.56 4.87
1,53	9.64		0.87	12.04	0.37	4.65	4.28	3.01	4.12

¹² Sand: 38.69%.

TABLE 5. ANALYSES OF MIXED FERTILIZERS

	TABLE 5. ANALYSES OF MIXED FE	TUTTETETIO
Station No.	Manufacturer and brand	Place of sampling
	DAVISON CHEMICAL CO. Baltimore, Md.	
3707 4046 3714	0-15-30 Davco Granulated Fertilizer 0-20-20 Davco Granulated Fertilizer 5-10-10 Davco 3-G Granulated Fertilizer	Willimantic New Milford Willimantic
3711 3710 4047	8-16-16 Davco 3-G Granulated Fert- ilizer Davco Turf & Garden Food 5-10-5 10-6-4 Davco 3G Granulated Fertil-	Willimantic Willimantic
4040	izer 10-10-10 Davco Granulated 3-G Fertil- izer	New Milford New Milford
4045	15-10-10 Davco 3-G Granulated Fertilizer	New Milford
	DAYTON FERTILIZER CORP. Dayton, N.J.	
3629 3595 4036	Grand Garden 6-10-4 Lawn Treat 10-6-4 Lightweight Lawn Treat 14-8-4	Wethersfield Greenwich Danbury
	E.I. DuPONT de NEMOURS & CO. INC. Wilmington, Del.	
3679	DuPont Turf Food 20-10-10	Stratford
	EASTERN STATES FARMERS' EXCHANGE, INC. West Springfield, Mass.	
3994 ¹³ 3449 3716 ¹⁴ 3998 ¹⁵ 3981 ¹⁶ 3995 3400 ¹⁷	Eastern States 0-15-303 Eastern States 0-25-25 Eastern States 5-10-10 SM-1.2 Eastern States 5-10-10 SM-1.2 Eastern States 8-16-166 Eastern States 10-6-4 Eastern States 10-10-106 Granular Fertilizer	North Haven Buckland Willimantic Buckland North Haven Buckland

¹³ Boron: Guaranteed, 0.30%; found, 0.47%.

¹⁴ Magnesium: Guaranteed, 1.20%; found, 3.18%.

		itroge er cer				sphorio		Pota per c	
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
					0.85 0.90	18.80 21.60	17.95 20.70	25.49 18.17	26. 58 20. 20
0.68 1.93		0.20	0.00	5.00 8.00	0.22	10.50 16.35	10.28	8. 79 13. 64	10.30
0.74	5.08 2.72	0.08 1.12	0.00 4.90	5.90 2.54	0.30	10.81	10.51 6.57	4.63 2.88	6.52 4.52
2.46	6.80	0.40	0.00	2.66	0.25	10.30	10.05	7. 76	10.08
2.84	10.08	1.24	0.00	14.16	0.35	10.85	10.50	6.88	10.12
1.07 0.67 1.01	4.67 4.56 10.40	0.33 3.20 0.88		6. 26 10. 24 13. 46	0.40 0.37 0.55	11.00 6.42 8.60	10.60 6.05 8.05	3.61 3.72 3.49	4.59 4.18 4.18
0.57	2.88	6.08	1 2. 09	21.,62	0.05	10.80	10.75	4.08	2.50
1.38 1.34 2.42 0.00 2.48	5.52	0.56 0.44 0.56 2.32		5.50 5.30 8.50 10.58	0.25 0.42 0.20 0.28 0.33 0.15	15.95 25.95 11.12 12.30 17.20 6.90	15. 70 25. 53 10. 92 12. 02 16. 87 6. 75	28. 27 22. 96 7. 97 7. 32 12. 80 1. 91 8. 96	31.34 25.06 10.30 10.08 16.01 4.46

¹⁵ Magnesium: Guaranteed, 1.20%; found 2.89%.

¹⁶ Magnesium: Guaranteed, 0.60%; found, 0.80%.

¹⁷ Magnesium: Guaranteed, 0.60%; found, 0.83%.

TABLE 5. ANALYSES OF MIXED FERTILIZERS

	TABLE 5. ANALISES OF MIXED FE	CTILIZZIO
Station No.	Manufacturer and brand	Place of sampling
3439 ¹⁸ 3997 ¹⁹ 3440 ²⁰ 3983 3715 ²¹ 4035 ²² 3479	Eastern States 10-15-15-1.2 Eastern States 10-15-15 L. C1.2 Eastern States 10-20-106 Eastern States 15-10-10 Eastern States Green Lawn 10-5-5-1.2 Eastern States Green Lawn "Plus" 10-5-5-2. Fert. Plus Weed Killers Eastern States Super Formula 15-15-15 Granular Fertilizer ELLAR CHEMICAL DISTRIBUTORS INC. Lodi, N.J.	Hazardville Buckland Hazardville North Haven Willimantic Bethel Granby
4357	Ellar's 5-10-5 Best THE ESPOMA CO. Millville, N.J.	West Haven
3584 3955	Espoma Organic 3-2-1 Holly-Tone 4-6-4 FAESY & BESTHOFF, INC. New York, N.Y.	Greenwich Stamford
3691 ²³	F & B Evergreen Food 7-7-7 FARMINGDALE GARDEN LABS. INC. Farmingdale, N.Y.	Thompsonville
3677	Farmingdale 10-6-4 Uramite Green Turf FIRST NATIONAL STORES, INC. East Hartford, Conn.	Stratford
3663 3682	East Hartford, Conn. Emerald Green Lawn Food 12-5-7 Emerald Green Plant Food 8-12-6 THE GARDEN CENTER, INC. West Hartford, Conn.	Milford Thompsonville
4544	Garden Center Lawn Fertilizer 10-6-4	West Hartford

¹⁸ Magnesium: Guaranteed, 1.20%; found, 1.58%.

¹⁹ Magnesium: Guaranteed, 1.20%; found, 1.68%.

Magnesium: Guaranteed, 0.60%; found 1.13%.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

		itroge er cer				sphoric		Pota per c	
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	T otal	So-called "available"	As muriate	Total
2. 22 2. 44 2. 73 1. 88 0. 13	7.64 7.12 7.04 11.44 2.60	0.56 0.44 0.32 1.72 3.46	0.08 0.00 0.11 0.00 4.39	10.50 10.00 10.20 15.04 10.56	0.32 0.35 0.36 0.15 0.07	15.55 15.40 21.80 11.82 5.75	15. 23 15. 05 21. 44 11. 67 5. 68	7.01 1.81 8.25 7.66 3.41	15.18 14.26 10.74 10.22 5.57
1.24	2.68	3.16	3.46	10.54	0.48	6.00	5.52	3.69	5.31
2.04	12. 24	0.72	0.00	15.00	0.00	14.30	14.30	12.24	15.00
1.36	3.92	0.08	0.00	5.36	0.25	10.55	10.30	2.63	4.24
0.12	2.36	0.52	1.66	3.94 4.66	0.30 0.45	3.30 7.47	3.00 7.02	0.56 3.05	2.75 4.55
0.81	3,36	0.28	2,55	7.00	0.62	8.27	7.65	5.71	6,52
1.74	2.96	4.36	1.16	10.22	0.45	7.32	6.87	3.97	5.16
0.54		1.32 0.56	-	12.28	0.12 0.70	5.80 12.75	5.68 12.05	5.58 4.70	7.47 6.42
0.72	4.96	3.02	1.30	10.00	0.70	7.40	6.70	3.03	4.12

²¹ Magnesium: Guaranteed, 1.20%; found, 4.58%.

²² Magnesium: Guaranteed, 2.00%; found, 3.80%.

²³ Iron: Guaranteed, 0.15%; found, 3.17%.

TABLE 5. ANALYSES OF MIXED FERTILIZERS

	TABLE 5. ANALYSES OF MIXED FE	CITLICITIO
Station No.	Manufacturer and brand	Place of sampling
3515	GLEN TERRACE NURSERIES INC. Hamden, Conn. Glen Terrace Lawn Food 10-6-4 GODFREY'S GARDEN SHOP Fairfield, Conn.	Hamden
4361	Godfrey's Lawn & Tree Food 10-6-4 GOULARD & OLENA, INC. Skillman, N.J.	Fairfield
3922 4540 3907	G&O Evergreen Tree & Shrub Food 9-7-4 G&O Foodfor Bulbs 5-6-15 G&O Hyganic Lawn Food 10-6-4	Manchester West Hartford
3921	with Ureaform G&O Light Fantastic Lawn Food 20-6-4 G&O Plant Food 6-10-4	Manchester Manchester Hartford
3920 3931 ²⁴ 3947	G&O Prizegro Plant Food 5-10-5 G&O Rose Food 7-8-5 G&O Turf Food & Insecticide 10-6-4 with Chlordane	Manchester Hartford West Hartford
3948	Goulard's Formula 8-15-5 GREEN-D PRODUCTS, INC. Huntington Station, N.Y.	West Hartford
3833 3838	Green D Lawn Food DeLuxe 100% Organic Nitrogen 10-6-4 Green D 40% Organic Nitrogen Rose Food 5-9-4	Norwalk Norwalk
3834 3839 3835	Green D 50% Organic Nitrogen 10-6-4 Green D 60% Organic Nitrogen Azalea Food 4-8-8 Green-Gro All-Purpose Economy	Norwalk Norwalk
3836	Fertilizer 5-10-5 Green-Gro Economy Lawn & Turf Fertilizer 10-6-4	Norwalk Norwalk
	HALSTEAD DISTRIBUTING CORP. Mount Kisco, N.Y.	
3962 3961	Just Right 5-10-5 Just Right Turf Food 10-6-4	Darien Darien

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

	N	itroge er cen	n,	DI(, 11.	Pho	sphoric	acid,	Pota per c	sh,
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
0.43	5.08	3.92	1.63	11.06	0.42	7.05	6.63	3.35	4.30
0.26	5.12	3.36	1.26	10.00	0.40	7.45	7.05	3.15	4.33
0.13 0.54	6.04 3.76	2.00	1.61 1.06	9.78 5.68	0.43	7.70 6.85	7.27 6.47	4.91 11.16	5.25 13.70
0.39	5.48	2.36	1.95	10.18	0.78	6.90	6.12	1.79	4.21
0.67 0.96 0.97 0.75	4.44 4.84 3.04 4.56	7.92 0.32 0.36 0.52	6.01 0.24 1.31 1.99	19.04 6.36 5.68 7.82	0.10 0.78 0.65 0.28	5.35 11.02 11.30 8.55	5. 25 10. 24 10. 65 8. 27	2.68 2.01 5.21 4.77	4.27 4.55 6.45 5.19
0.84 1.06	5.52 0.36	2.08 3.08	1.56 3.08	10.00 7.58	0.38 0.70	6.75 16.72	6.37 16.02	4.12 0.78	4.68 5.70
	0.00	4 0/	4 00	10.2/	0.20	/ 70	(42	4 10	4 / 2
0.60	0.00	4.96 0.60	4.80 2.83	10.36 6.50	0.28	6.70	6.42 9.32	4.18 2.86	4.62 3.86
1.25	5.00	1.72	2.03	10.00	0.53	7.12	6.59	3.31	4.97
0.50	1.84	0.38	1.88	4.60	0.63	8.90	8.27	5.29	8.15
1.22	3.80	0.28	0.14	5.44	0.43	11.15	10.72	2.39	5.07
1.55	7.68	0.20	0.25	2.68	0.13	7.60	7.47	1.93	4. 24
0.00 0.44	4.60 5.04	0.44	0.24 2.34	5.28 10.50	0.55 0.68	10.62	10.07	4.37 4.04	5.31 4.87

²⁴ Iron: Guaranteed, 0.15%; found, 0.29%.

TABLE 5. ANALYSES OF MIXED FERTILIZERS

	TABLE 5. ANALYSES OF MIXED FERT	TETELICO
Station No.	Manufacturer and brand	Place of sampling
3628 3620 3617 3616	THE CHARLES C. HART SEED CO. Wethersfield, Conn. Hart's All Organic 5-4-0 Hart's All Purpose Plant Food 5-10-5 Hart's Turf Food 20-10-5 Hart's Two-for-One 10-6-4 HERSHEY ESTATES, INC. Hershey, Pa. Ko-K-O Meal 3-1-3 THE HUBBARD-HALL CHEMICAL CO. Waterbury, Conn.	Wethersfield Wethersfield Wethersfi el d Wethersfield
3898 3547 4000 3672 3675 4512 4157 3712 3709 4511 4531 3809 4180 4412 4510 3725 4403 4038 3576 3896 4204 ²⁵	Green Gro Lawn Fertilizer 6-7-4 Green Ribbon Lawn Food 10-6-4 Green Ribbon Plant Food All Purpose 5-10-5 H-H Blade Lawn Food 20-6-4 H-H Evergreen Food 4-10-4 H-H Gro Mor Garden Fertilizer 5-10-10 H-H Lawn Fertilizer with Chlordane Added 8-6-4 H-H Luxura Lawn Food with Urea- Form 10-5-5 H-H Nitroganic 5-4-0 H-H Plant Food 5-10-5 H-H Turf & Tree Food H-H Weed-Kil Lawn Food with 2,4-D 6-10-4 Lawn Craft Turf Fertilizer for Pro- fessional Use 10-6-4 Lawn Craft 8-6-4 Turf Food Liberty Fertilizer 0-15-30 Liberty Fertilizer 5-8-7 Liberty Fertilizer 5-10-5 Liberty Fertilizer 5-10-10 Liberty Fertilizer 6-8-8-1. 2	Norwich Hamden Manchester Bridgeport Bridgeport Portland Clinton Willimantic Southbury Portland Portland Plainville Ridgefield Portland Southbury Windsorville Danbury Hamden Norwich East WindsorHill

Nitrogen, per cent						sphoric per cen		Potas per ce	
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
0.00 1.36 0.23 0.24	4.16 5.36	0.36 0.36 10.93 13.04	3.65	5.28 6.00 20.16 16.30	0.65 0.12 0.00 0.15	4.87 10.12 10.67 8.85	4.22 10.00 10.67 8.70	3.76 3.86 1.70	5.66 5.57 5.05
				3.40	0.15	1.60	1.45		3.07
1.25	3.52 9.68	0.44	0.79	6.00	0.45	8.05 6.97	7.60 6.82	3.33 2.72	4.55 4.55
1.32 0.28 0.00	3.40 4.80 2.96	13.92	0.00 0.76 0.95	5.00 19.76 5.48	0.48 0.12 0.30	11.55 6.87 10.95	11.07 6.75 10.65	3.85 1.83 2.76	5.47 4.39 5.15
1.16	3.44	0.48		5.08	0.50	10.90	10.40	9.11	10.15
0.38	3.36	2.80	0.96	7.50	0.55	7.87	7.32	1.46	4.08
0.55 0.00 0.80 0.22 0.00	2.96 0.12 2.24 3.84 5.80	4.32 0.39 1.28 2.72 3.44		10.14 5.16 5.36 8.00 10.66	0.32 0.90 0.70 0.20 0.43	7.55 5.60 10.57 11.15 7.00	7. 23 4. 70 9.87 10.95 6.57	2.83 2.63 0.25 3.09	5. 22 5. 07 5. 57 4. 46
0.86	4.32	0.40	0.74	6.32	0.37	10.20	9.83	3.03	4.05
0.00 0.20 0.79 0.47 0.84 0.80	6.88 4.32 3.88 4.08 3.76 4.80	2.56 0.40 2.12		10.00 8.00 5.22 7.14 5.12 6.16	0.30 0.45 0.60 0.50 0.38 0.05 0.10 0.40	7.87 7.22 15.77 18.70 9.20 9.20 11.02 9.95	7. 57 6. 77 15. 17 18. 20 8. 82 9. 15 10. 92 9. 55	2.86 3.00 21.12 17.77 6.32 4.51 7.81 5.64	4.18 4.33 27.38 20.33 7.10 5.66 10.63 8.35

²⁵ Magnesium: Guaranteed, 1.20%; found, 2.82%.

TABLE 5. ANALYSES OF MIXED FERTILIZERS

Manufacturer and brand 4413 ²⁶ 3897 4515 ²⁷ 4515 ²⁷ 4219 Liberty Fertilizer 8-12-12-1.2 Liberty Fertilizer 8-16-16 Liberty Fertilizer 10-6-4 Liberty Fertilizer 10-6-4 Liberty Fertilizer 10-10-10 Liberty Fertilizer 10-10-10 Liberty High Grade Tobacco Fertilizer Liberty Super Gro 5-10-10-1.2 Liberty Super Gro 5-10-10-1.2 Liberty Super Gro 6-12-12-1.2 Fertilizer Liberty Super Gro 6-12-12-1.2 Liberty Tobacco Fertilizer 6-3-6 (Half & Half) Liberty Tobacco Fertilizer 6-3-6 (Half & Half) Liberty Tobacco Fertilizer 6-3-6 Woodruff's 10-5-5 Lawn & Tree Food Woodruff's Lawn & Tree Food Woodruff's Lawn & Tree Food Society Hill Lawn Feeder 20-10-5 Society Hill Lawn Feeder 20-10-5 Society Hill Lawn Feeder 10-6-4 LAWN & GRASS SEEDS, INC. Buffalo, N. Y. 3615 Society Hill Lawn Feeder 20-10-5 Fabulawn Lawn Fertilizer 20-10-5 Fabulawn Weed & Feed 20-10-5 LAWN-TEX INC. Chicago, III. 3963 Organi-Green 5-5-0 LEBANON CHEMICAL CORP. Lebanon, Pa. 3653 Lebanon Rose Food 7-7-7		TABLE 5. ANALYSES OF MIXED FER	TILIZERS
Jiberty Fertilizer 7-7-7 451527 Liberty Fertilizer 8-12-1.2 Liberty Fertilizer 8-16-16 Jiberty Fertilizer 10-6-4 Liberty Fertilizer 10-10-10 Liberty Fertilizer 15-10-10 Liberty Fertilizer 15-10-10 Liberty High Grade Tobacco Fertilizer Liberty Super Gro 10-10-10 Fertilizer Liberty Super Gro 5-10-10-1.2 Liberty Super Gro 6-12-12-1.2 Fertilizer Liberty Super Spud 8-10-10-1.2 Liberty Tobacco Fertilizer 6-3-6 (Half & Half) Liberty Tobacco Fertilizer 6-3-6 (Woodruff's Lawn & Tree Food 10-5-5 KEN-BRIS FARMS, INC. Philadelphia, Pa. Society Hill Lawn Feeder 20-10-5 Society Hill Weeder-Feeder 10-6-4 LAWN & GRASS SEEDS, INC. Buffalo, N. Y. Fabulawn Lawn Fertilizer 20-10-5 Fabulawn Weed & Feed 20-10-5 Fabulawn Weed & Feed 20-10-5 Chicago, III. Organi-Green 5-5-0 Lebanon, Pa.	Station No.	Manufacturer and brand	Place of sampling
Philadelphia, Pa. Society Hill Lawn Feeder 20-10-5 Society Hill Weeder-Feeder 10-6-4 LAWN & GRASS SEEDS, INC. Buffalo, N. Y. 3615 Fabulawn Lawn Fertilizer 20-10-5 Fabulawn Weed & Feed 20-10-5 Chicago, III. 3963 Organi-Green 5-5-0 LEBANON CHEMICAL CORP. Lebanon, Pa. Hartford Hartford Orange Darien	3897 4515 ²⁷ 4319 3773 3726 4390 4407 4391 4408 ²⁸ 4402 ²⁹ 4514 ³⁰ 4405 4406 3574	Liberty Fertilizer 7-7-7 Liberty Fertilizer 8-12-12-1.2 Liberty Fertilizer 8-16-16 Liberty Fertilizer 10-6-4 Liberty Fertilizer 10-10-10 Liberty Fertilizer 15-10-10 Liberty High Grade Tobacco Fertilizer Liberty Super Corn 10-10-10 Fertilizer Liberty Super Gro 5-10-10-1.2 Liberty Super Gro 6-12-12-1.2 Fertilizer Liberty Super Spud 8-10-10-1.2 Liberty Tobacco Fertilizer 6-3-6 (Half & Half) Liberty Tobacco Fertilizer 6-3-6 Woodruff's 10-5-5 Lawn & Tree Food Woodruff's Lawn & Tree Food 10-5-5	Norwich Portland Torrington Waterbury Southbury Windsorville Windsorville Windsorville Windsorville Windsorville Windsorville Windsorville Portland Windsorville Hamden
3614 Fabulawn Weed & Feed 20-10-5 LAWN-TEX INC. Chicago, III. 3963 Organi-Green 5-5-0 LEBANON CHEMICAL CORP. Lebanon, Pa. Orange Darien		Society Hill Lawn Feeder 20-10-5 Society Hill Weeder-Feeder 10-6-4 LAWN & GRASS SEEDS, INC.	
LEBANON CHEMICAL CORP. Lebanon, Pa.		Fabulawn Weed & Feed 20-10-5 LAWN-TEX INC.	
Departon Rose Food 1-1-1		LEBANON CHEMICAL CORP. Lebanon, Pa.	Darien
	3053	Lebanon Rose Food (-1-1	

¹ State purchase.

Magnesium: Guaranteed, 1.20%; found, 1.76%.

²⁷ Magnesium: Guaranteed, 1.20%; found, 1.87%.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

	Nitrogen, per cent					Phosphoric acid, Potash, per cent per cent			
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
0.84 1.24 1.28 2.00 0.00 0.00 1.88 1.16	4.88 5.52 5.92 5.68 8.92 8.72 11.28 0.00	0.24 0.56 0.00 1.44 1.16	0.00 0.00 0.00 0.34 2.90	6.20 7.00 7.76 7.68 10.36 10.22 14.12 5.42	0.40 0.10 0.30 0.70 0.25 0.47 0.35 0.10	9.27 6.70 12.30 16.75 6.75 11.60 10.82 4.10	8.87 6.60 12.00 16.05 6.50 11.13 10.47 4.00	5.80 8.14 4.82 13.28 1.87 6.73 7.88 0.17	8.39 12.43 12.43 16.08 4.24 10.08 10.37 6.35
1.92	7.36 3.92	0.16 1.40	0.24	9.68 5.32	0.35	10.77	10.42	6.57 7.49	10.45 10.30
0.78	4.72 5.84		0.30	6.36 7.36	0.30	12.80	12.50	9.35 4.95	12.43 10.44
1.64 1.94 0.62 0.00	0.00 0.00 3.28 2.28	1.92	2.60 2.14 0.74 1.12	6.00 6.00 10.00 9.62	0.05 0.15 0.27 0.55	3.60 3.80 5.70 7.17	3.55 3.65 5.43 6.62	0.32 0.24 4.93 5.30	6.55 6.59 5.94 6.38
0.00	3.16 4.48		1.98 1.43	21.58		10.55	10.55	2.66	5.47 4.70
0.90	2.40 3.48	16.96 15.88		20.42		10.40	1	5.39 1.99	6.77 6.47
0.00	0.00	0.74	4.86	5.60	0.90	6.25	5.35		
0.52	4.52	0.28	1.30	6.62	0.30	8.95	8.65	4.81	6.42

²⁸ Magnesium: Guaranteed, 1.20%; found, 1.44%.

²⁹ Magnesium: Guaranteed, 1.20%; found, 1.20%.

³⁰ Magnesium: Guaranteed, 1.20%; found, 1.94%.

TABLE 5. ANALYSES OF MIXED FERTILIZERS

	TABLE 5. ANALYSES OF MIXED FE	TO I I I I I I I I I I I I I I I I I I I
Station No.	Manufacturer and brand	Place of sampling
3626 3940 4548 ³¹	Lebanon Truck Crop 5-10-5 Lebanon Turf Organic 5-4-0 Lebanon Uni-Form 10-6-4 Chelated Iron LEE PATTON SEED CO. Jersey City, N.J.	Wethersfield Hartford W. Hartford
4056 3902 4051	Patco's Combo 10-6-4 Patco's Featherweight 20-10-5 Patco's Lawn Food 9-8-3 THE MAMLON CO.	Guilford Buckland Branford
4209 3517 4208	New Haven, Conn. Fer-Mel General Purpose Plant Food 18-18-18 Fer-Mel Lawn Food 25-12-10 Fer-Mel Water Soluble Turf & Tree Food 24-12-12 MASS. NURSERYMEN'S ASSOC. Quincy, Mass.	New Haven Hamden New Haven
3694 3693	MNA Plant-O-Ganic 8-8-8 MNA Turf-O-Ganic 10-6-4 MC ARDLE'S SEED CO. Greenwich, Conn.	Thompsonville Thompsonville
3583	McArdle's 10-6-4 OLD FOX AGRICULTURAL SALES INC., East Providence, R.I.	Greenwich
3699 3705 4388 4015 4389 ³² 4012 ³³	Green Lawn 8-6-4 Old Fox Brand 0-15-30 Old Fox Brand 4-16-20 Old Fox Brand 5-10-10	Hazardville Hazardville Hazardville Hazardville Hazardville Hazardville

indicates deficiencies.

31 Iron: Guaranteed, 0.15%; found, 2.25%.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

	Nitrogen, per cent					sphorio		Pota:	
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
1.47	3.48 0.00		0.11	5. 22 5. 24	0.15	10.30 5.95	10.15 4.85	2.62	4.59
0.36	1.60	3.00	4.84	9.80	0.60	6.90	6.30	2.00	3.73
1.02 0.00 0.81	2.80	2.48 16.56 2.28	3.80	10.12 23.16 9.56	0.35 0.30 0.40	6.37 10.42 8.57	6.02 10.12 8.17	1.22 2.55 2.32	4.33 5.10 3.44
2.50		11.42 22.24	0.00	18.00 26.30	0.04	20.45	20.41 10.47	14.26 6.16	18.66 10.40
0.76	3.52	19.84	0.00	24.12	0.05	13.05	13.00	8.99	12.46
0.25	1.76 2.12	1.24 1.76		8.00 11.18	0.40 0.42	8.62 7.30	8.22 6.88	5.88 3.19	7.33 4.30
0.88	3.84	3.12	1.86	2,70	0.50	7.92	7.42	4.61	4.84
0.54 0.70 0.68 1.36 0.57	6.48 2.64 3.64 3.28 5.08	0.08 0.12 0.24	0.00 0.14 0.10 0.12 0.11	7.42 3.56 4.54 5.00 6.00	0.05 0.17 0.35 0.38 0.40 0.30	7.25 15.17 15.50 11.85 10.75 9.47	7.20 15.00 15.15 11.47 10.35 9.17	2.47 25.55 14.82 7.24 8.42 5.50	4.97 29.22 18.91 12.86 10.59 8.25

³² Magnesium: Guaranteed, 1.20%; found, 3.01%.

 $^{^{33}}$ Magnesium: Guaranteed, 1.20%; found, 1.96%.

TABLE 5. ANALYSES OF MIXED FERTILIZERS

	TABLE 5. ANALISES OF MIXED FER	
Station No.	Manufacturer and brand	Place of sampling
4011 ³⁴ 4010 ³⁵ 3787 ¹ 4029 3788 ¹	Old Fox Brand 6-10-10-1.2 Old Fox Brand 8-10-10-1.2 Old Fox Brand 10-10-10 Old Fox Brand 15-10-10 Old Fox Brand Tobacco Fertilizer 6-3-6	Hazardville Hazardville Mt. Carmel Hazardville Mt. Carmel
4013 4008 ³⁶	Old Fox Brand Tobacco Fertilizer 6-3-6 Old Fox Brand Tobacco Fertilizer	Hazardville
3695 3776 ¹	6-3-6-1.2 Old Fox Garden Food 5-10-5 Old Fox Garden Food 5-10-5	Hazardville Thompsonville Mt. Carmel
4014 3700 3775 ¹	Old Fox No Pest Turf Food 8-6-2 Old Fox Turf Food 8-6-2 Old Fox Turf Food 10-6-4	Hazardville Hazardville Mt. Carmel
4386	Old Fox Turf Food 10-0-4 Old Fox Turf Food with Urea-Form 10-6-4	Hazardville
3520 ¹	Old Fox Turf Food with Urea-Form 10-6-4	New Haven
	OLIN MATHIESON CHEMICAL CORP. Houston, Texas	
3926	Ammo-Phos 13-13-13 PAX COMPANY Salt Lake City, Utah	New Haven
4521	New Pax Crabgrass & Soil Pest Control 4-0-0	Portland
	FRANK S. PLATT CO. Branford, Conn.	
4049	Platt's Hi Organic Lawn Fertilizer	Branford
	PROSPECT MANUFACTURING CO. Cranbury, N.J.	
3837	Lawn & Garden Food 10-6-4	Norwalk

¹ State purchase.

³⁴ Magnesium: Guaranteed, 1.20%; found, 1.70%.

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

	Nitrogen, per cent					Phosphoric acid, per cent			sh, ent
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
0.83 0.51 1.12 1.24	4.56 5.72 7.68 11.48	0.16 0.44 0.24 0.60	0.47 0.47 0.58 0.00	6.02 7.14 9.62 13.32	0.15 0.38 0.15 0.40	10.50 11.15 10.82 10.75	10.35 10.77 10.67 10.35	6.48 6.73 8.49 2.58	10.51 10.19 11.47 10.63
0.38	1.08	2.76	2.42	6.64	0.13	3.80	3.67	0.21	6.14
0.51	0.88	2.68	2.39	6.46	0.28	3.55	3.27	0.41	6.04
0.80 0.55 0.66 0.32 2.00 0.81	0.80 3.20 4.04 1.48 4.44 9.20	1.72 0.18 0.12 3.08 1.60 0.48	2.68 0.17 0.18 1.96 0.00 0.15	6.00 4.10 5.00 6.84 8.04 10.64	0.33 0.10 0.20 0.07 0.35 0.13	3.57 12.05 11.80 4.65 6.67 8.75	3. 24 11. 95 11. 60 4. 58 6. 32 8. 62	1.20 4.44 2.81 0.19 2.47 2.84	6.86 6.23 6.62 6.26 3.43 5.09
0.90	3.12	1.52	4.18	2.72	0.40	7.20	6.80	4.69	4.87
0.47	4.68 12.72	0.52	0.00	13.24	0.17	6.60 13.72	6.43	3.549.07	5.03
0.00	4.40	0.04	0.00	4.44					
0.59	5.36	2.52	1.53	10.00	0.33	5.95	5.62	2.76	5.41
1,18	7. 76	0.24	0.18	2.36	0.23	7.22	6.99	0.28	4.08

³⁵ Magnesium: Guaranteed, 1.20%; found 1.43%.

³⁶ Magnesium: Guaranteed, 1.20%; found 2.29%.

TABLE 5. ANALYSES OF MIXED FERTILIZERS

Station No.	Manufacturer and brand	Place of sampling
3513 3514	Lawn Master 5-10-5 Fertilizer Lawn Master 10-6-4 Hi-Organic	Middletown
3511	Fertilizer New Garden Crest Lawn & Garden	Middletown
3511	Fertilizer 5-10-5	Middletown
	O. M. SCOTT & SONS CO. Marysville, Ohio	
3591 3443	Dawn 16-11-13 Turf Builder 20-10-5	Greenwich Manchester
	SEABOARD SEED CO. Philadelphia, Pa.	
3980	Seaboard's Lawn & Plant Food 20-10-5	North Haven
3673	Seaboard's Lawn Feeding Weed Killer 10-6-4	
	SEARS, ROEBUCK & CO. Chicago, III.	Bridgeport
4518	Cross CountryCrabgrass Plant Killer with Lawn Food	New London
3555 3999	Cross Country Lawn Food 5-5-0 Cross Country Lawn Food with	Hamden
	Weed Killer 5-5-0	Manchester
4513	Cross Country Lawn Quick Green	Portland
4530	Cross Country Merion Bluegrass Lawn Food 20-10-5	Portland
3554	Cross Country Plant Food 5-10-5 M. L. SHOEMAKER DIV. Philadelphia, Pa.	Hamden
4404	M. L. Shoemaker's "Swift Sure" 4-10-0	Windsorville
	SWIFT & CO. Baltimore, Md.	
4002 3548	Golden Vigoro Lawn Food 12-5-7 Pink Vigoro 8-12-6	Manchester Hamden
3444	Vitogro 16-8-4	Manchester
3770	Vitogro Lawn Weeder&Feeder 16-0-4	Waterbury
	ndicator deficiencies	

	Nitrogen, per cent					sphoric	acid,	Pota per c	sh,
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Tota1	So-called "available"	As muriate	Total
1.44	5.12	0.20	0.20	6.96	0.82	10.37	2.55	2.99	5.10
0.85	4.32	2.24	2.03	2.44	0.30	5.57	5.27	3.69	5.00
0.70	5.20	0.48	0.44	6.82	0.50	10.90	10.40	1.47	5.00
0.36	1.28 1.06	10.72 7.86	4.44 8.36	16.80 20.00		11.40		10.05 2.26	13.27 5.54
0.97	2.96	13.44	1.39	18.76	0.13	10.80	10.67	0.27	7.55
0.00	4.60	4.73	1.55	10.88	0.17	6.80	6.63	2.53	4.94
0.26 0.20 0.00 0.60 0.48 1.09	0.24 0.20 0.12 7.76 4.64 3.32	0.32 1.13 1.36 12.00	4.14 4.56 4.23 0.28 3.24 0.07	5. 28 5. 48 10. 00 20. 36	1.10	6.15 6.00 6.40 7.10 10.70 11.42		5.54 1.87 2.64	9.49 5.10 5.31
0.92 1.16 0.09 0.33 0.50	2.80 1.32 5.92 1.56 0.40	4.36 2.04 7.40	0.48 5.74 0.31 6.83 6.54	12.58 8.36	0.50		12.27	0.31 5.17 0.62	7.06 6.14 4.62 4.94

TABLE 5. ANALYSES OF MIXED FERTILIZERS

	TABLE 5. ANALYSES OF MIXED FER	LILIZERS
Station No.	Manufacturer and brand	Place of sampling
	UNEXCELLED CHEMICAL CORP. Cranbury, N.J.	
3678 3658 3657 3960 3676 3613	General Green 20-10-5 A Technical Formulation Lawn & Garden Food 5-10-5 Lawn & Garden Food Hi Organic 10-6-4 Lawn Life 20-10-5 Lawn Master Fertilizer 10-6-4 100% Organic Nitrogen Princeton Park 5-10-5 Lawn & Garden Fertilizer	Stratford Milford Milford Darien Stratford New Haven
3941	UNIVERSAL CHEMICAL CO. INC. West Lynn, Mass. Electra Plant Food 5-10-3	Hartford
3786 3785 3784	OSCAR F. WARNER Waterbury, Conn. Warner's Grubedizer 8-6-4 Warner's Lawn Food 8-6-4 Warner's Tree Food 12-6-4	Waterbury Waterbury Waterbury
4048	WHITNEY SEED CO. INC. Buffalo, N.Y. Whitney's Vital Brand Lawn Fertilizer 20-10-5 GARFIELD WILLIAMSON, INC.	New Milford
4320 3671	Jersey City, N.J. Wonderlawn Lawn Food 10-6-4 Wonderlawn 10-6-4 WIRTHMORE STORE S INC.	Bristol Bridgeport
4156	Waltham, Mass. Organo 10-5-5 S.D. WOODRUFF & SONS OF WETH- ERSFIELD INC., Wethersfield, Conr	Clinton
3979 3618 3627	Woodruff's Tuf Turf Lawn 20-10-5 Woodruff's Tuf Turf Turf Food 10-6-4 Woodruff's Tuf Turf Two-for-One 10-6-4	North Haven Wethersfield Wethersfield
	ndicates deficiencies	

CONTAINING NITROGEN, PHOSPHORIC ACID, AND POTASH

	N	itroge er cer	n,		Pho	sphoric per cen		Pota per c	sh,
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
2.60 1.02 1.65	5.48 2.88 4.68	1.20	6.36 0.14 1.37	5.24		11.25	10.73	3.53 3.82	5.66 5.77
1.63	4.56 0.64	6.32	4.53	17.04	0.33	10.52	10.19	2. 74 6. 41 4. 62	4.00 8.78 4.75
1.27	3.76	3.01	0.09	5.12	0. 20	10.30	10.10	3. 25	6. 28
0.73	2. 28	0.32	1.85	5.18	0.53	10.75	10.22	3,36	3.70
0.97 0.54 1.34	2.84 2.92 3.08	3.00	1.11 1.32 1.06	8.00 7.78 11.40	0.65 0.55 0.55	6.95 8.02 7.30	6.30 7.47 6.75	0.76 1.33 1.25	5.33 6.40 6.42
0.34	5.00	11.40	3. 26	20.00	0.78	11.00	10.22	2.69	5.97
0.80 0.93	4.16 2.36		4.92 1.95	10.20	0.60	6.80 8.55	6.20 8.18	3.94 4.49	5.90 5.22
0.36	5.84	2.16	1.16	9.52	0.25	6.35	6.10	4.18	5, 57
0.45	6.40 3.24		0.90	9.30	0.08 0.10	10.50 6.50	10.42 6.40	1.29	4.49 4.43
0.00	2.44	9.72	1.56	13.72	0.22	7.87	7.65	3. 26	5.05

TABLE 6. ANALYSES OF SHEEP MANURE, ETC.

	TABLE 6. ANALYSES OF SHEEP MANURE, ETC.
Station No.	Manufacturer, brand and dealer
4178	Armour Cattle Manure. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at Young's Feed Store, Ridgefield.
4179	Armour Sheep Manure. Armour Agricultural Chemical Co., Atlanta, Ga. Sampled at Young's Feed Store, Ridgefield.
3830	Corenco Sheep Manure & Inert Matter. Consolidated Rendering Co., Boston, Mass. Sampled at Derby Feed Store, Derby.
3610	Davey Shredded Manure. The Davey Tree Expert Co., Kent, Ohio. Sampled at The Davey Tree Expert Co., Old Greenwich.
4325	H-H Cow Manure. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at Bristol Nurseries Inc., Bristol.
4516	H-H Sheep Manure. The Hubbard-Hall Chemical Co., Waterbury, Conn. Sampled at The Hubbard- Hall Chemical Co., Portland.
3952	Lebanon Cow Manure. Lebanon Chemical Corp., Lebanon, Pa. Sampled at Leon Ezzell, Inc., Stamford.
3942	Dehydrated Sheep Manure. Maegeo Dehydrating Co., Lexington, N.C. Sampled at Cadwell & Jones Inc., Hartford.
3448	Fertal-Gro Dehydrated Cow Manure. Maegeo Dehydrating Co., Lexington, N.C. Sampled at Eastern States Farmers Exchange Inc., Buckland.
3923	Fertal-Gro Dehydrated Cow Manure. Maegeo Dehydrating Co., Lexington, N.C. Sampled at Vittner's Garden Center Inc., Manchester.
3949	McNair's Organure Dehydrated Cow Manure. McNairs Farms, Laurinburg, N.C. Sampled at The Peter Cascio Nursery, West Hartford.

TABLE 6. ANALYSES OF SHEEP MANURE, ETC.

Nitro per o				ric acid		Pota per c	ısh,	int
Total found	Total guaranteed	Citrate- insoluble	Total found	Total guaranteed	So-called "available" found	Total found	Total guaranteed	Sand, per cent
2.00	2.00		1.22	1.00		2. 15	2.00	29.51
2.00	1.25		1.30	1.00		2.15	2.00	38.53
1.96	1.25		2.00	1.00		2.40	2.00	15.83
3.62	2.00		4.40	1.00		2.06	1.00	1.38
1.68	1.50	0.75	1.75		1.001	2.75	1.00	22.58
1.44	1.25		1.55	1.00		2,53	1.00	25.41
2.08	2.00	0.40	1.40		1.001	2.09	2.00	35.00
L.58	2.00	0.10	0.90		0.801	7.17	5.00	8.44
1.30	2.00		1.00	1.00		7.06	7.00	23.68
1.76	2.00		1.15		1.151	8.93	7.00	7. 99
2.32	2.00	0.10	1.45		1.351	4.68	2,00	9.39

TABLE 6. ANALYSES OF SHEEP MANURE, ETC.

	TABLE 6. AVAILABLE OF BILEET MANORE, ETC.
Station No.	Manufacturer, brand and dealer
3689	Longhorn Brand Cattle Manure. Natural Plant Food Co., Oklahoma City, Okla. Sampled at Adams-Brainard, Inc., Thompsonville.
3690	Ramshorn Brand Sheep Manure. Natural Plant Food Co., Oklahoma City, Okla. Sampled at Adams-Brainard Inc., Thompsonville.
4323	Wizard Brand Cow Manure. St. Louis National Stock- yards Co., National Stockyards, Ill. Sampled at Paul M. Hubbard & Co., Bristol.
4517	Cross Country Organic Cattle Manure Compost. Sears, Roebuck & Co., Chicago, Ill. Sampled at Sears, Roebuck & Co., New London.
3553	Cross Country Organic Sheep Manure Compost. Sears, Roebuck & Co., Chicago, Ill. Sampled at Sears, Roebuck & Co., Hamden.
3619	Bovung. Walker-Gordon Laboratory Co., Plainsboro, N.J. Sampled at The Charles C. Hart Seed Co., Wether sfield.

¹ Guaranteed, 1.0%.

² Guaranteed, 0.50%.

TABLE 6. ANALYSES OF SHEEP MANURE, ETC.

	ogen, cent	F	Phosphor per o	ric acid	Pota per o	sh,	ent	
Total found	Total guaranteed	Citrate- insoluble	Total found	Total guaranteed	So-called "available" found	Total found	Total guaranteed	Sand, per cent
2.00	2.00		1.12	1.00		1.64	2. სა	26.47
1.46	2.00		1.02	1.00		1.27	2.00	37. 98
2.00	2.00	0.75	2.47		1.72 ¹	2.09	2.00	31.66
0.88	0.50	0.05	0.55		0.50 ²	0.67	0.50	44.52
0.82	0.50		0.55	0.50		1.04	0.50	42.66
2.02	2.00	0.10	1.25		1.151	2.65	2.00	1.50

TABLE 7. ANALYSES OF SMALL PACKAGE FERTILIZERS								
Station No.	Manufacturer and brand	Place of sampling						
	AGRICULTURAL PRODUCTS CO. W. Kingston, R.I.							
3582 4329	APCO All Purpose Plant Food 5-10-5 APCO Rose Food 5-12-4	Branford New Britain						
	THE AMERICAN AGRICULTURAL CHEMICAL CO., New York, N. Y.							
3578 3904 3906	Agrico Fertilizer for Azaleas, Camell- ias, Rhododendrons 6-10-4 Agrico House Plant Food 17-17-17 Agrico Rose Fertilizer 5-9-6	Hamden Buckland Buckland						
	ATLAS FISH FERTILIZER CO. San Francisco, Calif.							
3957	Atlas Fish Emulsion Fertilizer 5-10-1 JOSEPH BRECK & SONS	Stamford						
4322 ¹ 3924 ²	Boston, Mass. Breck's Bone Meal 2.5-20-0 Breck's Garden Gro 5-10-10-1.2 CALIFORNIA SPRAY-CHEMICAL CORP., Richmond, Calif.	Bristol Manchester						
4362	Ortho-Gro Liquid Plant Food 15-5-5 CLINTON NURSERIES Clinton, Conn.	Fairfield						
3630	New Era Rose Food 10-20-10 CONSOLIDATED RENDERING CO. Boston, Mass.	Wethersfield						
3977 ³ 3901	Corenco Ground Bone 2-22-0 Corenco Home Garden Fertilizer	North Haven						
3635	5-10-5 Corenco Rhododendron Azalea & Blue-	Norwich						
4050	berry Special 7-7-7 Corenco Rose Special Fertilizer 5-10-5	Milford Branford						

¹ Mechanical Analysis: Fine, 69.0%; coarse, 31.0%.

IAD	N	litroge er cer	n,	OF SM	Phosphoric acid, per cent per ce			sh,	
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
0.00	5.04 3.68	1	0.26 1.52	5.56 5.72	0.17	9.50 12.40	9.33 12.23	4.25 2.86	5.16 4.27
3.64	3.92	0.51 10.00 2.56	0.13 0.00 0.24	5,80 17,56 5,76	0.50 0.05 0.13	10.90 19.35 10.02	10.40 19.30 9.89	0.90	4.24 17.50 5.96
0.26	1.32	3.64	0.72	5.94	0.05	1.08	1.03	1.77	1.77
1.50	3.68	0.00	0.00	2.84 5.18	0.65	26.10 10.75	10.10	4.81	10.04
0.28	0.56	14.32		15.16		5.17	5.17		5. 25
3.24	3.96	4.04	0.00	11.24	0.32	20.70	20.38		10.66
				2.44		26.80			
1.27		0.32		6.00	0.17	10.00	9.83	4.86	6.59
1.93		0.20	0.17	7.06	0.22	7.42	7. 20	4.79	7.50
0.00	2, 20	1.56	1.24	5,00	0.80	11.75	10.95	5.72	6.32

² Magnesium: Guaranteed, 1.20%; found, 1.58%.

³ Mechanical Analysis: Fine 65.0%; coarse, 35.0%.

TABL	E 7. ANALYSES OF SMALL PACKAGE	FERTILIZERS
Station No.	Manufacturer and brand	Place of sampling
	E.I.DuPONT De NEMOURS & CO. INC	
	Wilmington, Del.	· I
3510	DuPont Azalea & Evergreen Food	20111
4537	10-5-5 DuPont Rose Food 8-8-8	Middletown Wallingford
	EASTERN STATES FARMERS EX- CHANGE, INC. W. Springfield, Conn.	
3450	Eastern States Start-N-Gro 16-32-16	Buckland
	THE ESPOMA CO. Millville, N.J.	
4054	Espoma Rose Food 6-6-4	Branford
	FIRST NATIONAL STORE S, INC. East Hartford, Conn.	
3978 4055 3664	Emerald Green Evergreen Food 4-10-4 Emerald Green Plant Food 8-12-6 Emerald Green Rose Food 7-10-5	North Haven Guilford Milford
	GEIGY AGRICULTURAL CHEMICALS Ardsley, N.Y.	
3956 ⁴	Sequestrene 330 Fe Iron Chelate	Stamford
	GOULARD & OLENA, INC. Skillman, N.J.	
4541 3905	G&O Evergreen Food 5-10-10 G&O Plant Food for Acid-Loving	West Hartford
	Plants 6-10-4	Buckland
4543 3925	G&O Prizegro for Gardens 5-10-5 G&O Tomato & Fruit Food 5-10-10	West Hartford Manchester
4164	G&O Tomato Food 3-12-13	New Canaan
	GRAY CHEMICALS, INC. Gloucester, Mass.	
4547	Mer-Made Plant Food 5-5-1	West Hartford
	THE CHARLES C. HART SEED CO. Wethersfield, Conn.	
4546	Hart's Plant Food 5-10-5 for Veg-	717 . 77 . 6
3811	etables & Flower Gardens Hart's Rose Food 7-7-7	West Hartford Plainville

TABLE 7.	ANALYSES	Phosphoric acid, Potash,				RS	
	itrogen, er cent	1	sphorio per cer		Pota per c		
Nitrate Ammoniacal	Water-soluble Water-insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
0.46 0.40 0.00	1.64 1.76 6.90 5.84	10.56	0.22	6.87 9.52	6.65 8.37	4.78 9.22	5.19 10.08
5.18 7.84	3.32 0.00	16.34	0.00	32.10	32.10		16.91
0.00 4.24	0.72 2.12	7.08	0.32	6.50	6.18	2.70	4.33
0.00 0.24 1.24 5.52 0.19 3.56	3.10 1.18 0.56 0.74 1.72 1.57	1	0.48 1.05 0.20		10.72 11.60 8.30	3.94 4.83 0.24	4.49 6.07 4.39
0.86 2.48 0.68 4.88 0.48 2.64 1.30 3.72	1.44 0.46 0.32 0.26 0.92 1.16 0.16 0.12	5. 24 6. 14 5. 20 5. 30 3. 24	0.40 0.30 0.40 0.50 0.45	10.55 10.65 10.50 10.72 13.95	10.15 10.35 10.10 10.22 13.50	5.44 2.95 3.98 5.90 9.34	10.04 4.49 5.57 10.01 14.53
0.22 0.48	3.64 1.06	5.40		5.00	5.00	1.67	1.67
1.36 4.32 0.78 3.82	0.68 0.02 1.24	6.36 5.86	0.30 0.45	10.90	10.60 9.85	2.54 3.93	5.66 6.69 ~~~

⁴ Iron: Guaranteed, 10.00%; found, 7.79%.

TABI	TABLE 7. ANALYSES OF SMALL PACKAGE FERTILIZERS								
Station No.	Manufacturer and brand	Place of sampling							
4053 ⁵ 3681	A. H. HOFFMAN, INC. Landisville, Pa. Hoffman Dehydrated Cow Manure 2-1-1 Hoffman Rose Food 5-10-5 THE HUBBARD-HALL CHEMICAL CO., Waterbury, Conn.	Branford Thompsonville							
4321 3518 ⁶ 4326 3660 ⁷ 4181 3680 3659 ⁸	Gro-Fast Evergreen Food 4-10-4 H-H Bone Meal 2-23-0 H-H Cottonseed Meal 6-0-0 H-H Cow Manure & Inert Matter 1.5-1-1 H-H Muriate of Potash 60% H-H Rose Food 7-10-5 H-H Sheep Manure & Inert Matter 1.25-1-1	Bristol Hamden Bristol Milford Ridgefield Stratford Milford							
3594 3446	HYDROPONIC CHEMICAL CO., INC. Copley, Ohio Hyponex Plant Food 7-6-19 THE HY-TROUS CORP. Boston, Mass. Hy-Trous Liquid Fertilizer 4-8-4	Greenwich Manchester							
3557	OLIN MATHIESON CHEMICAL CORP. New York, N.Y. Plantrons 12-24-12 ORGANIC COMPOST CORP. Oxford, Pa.	Hamden							
3581 ⁹	Fertilife Cattle Manure 0.5-0.5-0.5-	Branford							

⁵ Sand: 10.31%.

⁶ Mechanical analysis: Fine, 51.0%; coarse, 49.0%.

TAB				OF SM	Phosphoric acid Potash				
		itroge er cen			Phosphoric acid, per cent			Potash, per cent	
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total
0.00	3.60	0.27	1.45	2.08 5.32	0.35	1.60 10.85		3.53	4. 21 6. 14
0.24	1.68	1.28	0.98	4. 18 2. 58 6. 12	0.70	12.22 27.40	11.52	2.99	4.02
0.00	3.60	3.20	1.26	1.50 8.06 1.48	0.12	1.80 9.65 1.57	9.53		2.49 60.96 6.17 2.75
6.36	1.16	0.04		7.56	0.10	7.40	7.30		21.28
1.44	1.92	1.08	0.00	4.44	0.00	8.33	8.33		6.93
0.00	11.36	0.72	0.16	12.24	0.28	25.40	25.12	8.39	12.08
				0.86	0.22	0.80	0.58		0.67

⁷ Sand: 31.44%.

8 Sand: 30.09%.

9 Sand: 43.18%.

TADI	E 7. ANALYSES OF SMALL PACKAGE	FERTILIZERS
Station No.	Manufacturer and brand	Place of sampling
	PARKS-BARNES, INC. Hermosa Beach, Calif.	
3612 3447	Black Magic African Violet Blossom Booster 4-10-10 Black Magic Liquid Fertilizer	Old Greenwich
3611	10-5-5 Black Magic 2-3-2 Plant Food	Manchester Old Greenwich
3972	PLANTABBS CORP. Baltimore, Md. Plantabbs 11-15-20	Darien
3972	PLANT SHINE CO. St. Louis, Mo.	Darien
3636	"Schultz-Instant" Liquid Plant Food 10-15-10	Milford
	RA-PID-GRO CORP. Dansville, N.Y.	
3519	Ra-Pid-Gro 23-21-17 ROSS DANIELS, INC.	Hamden
3958	Des Moines, Iowa Ross Plant Food Cartridges 15-25-10	Stamford
	O.M. SCOTT & SONS Marysville, Ohio	
3552	Dawn 16-11-13 SEARS, ROEBUCK & CO. Chicago, III.	New Haven
4520 4001	Cross Country Bulk Food 4-12-8 Cross Country Evergreen Food	New London
4519 3959	10-6-4 Cross Country Plant Food 5-10-5 Cross Country Rose Food 5-10-5	Manchester New London Stamford
	STERN'S NURSERIES, INC. Geneva, N.Y.	
4380 3593	Miracle-Gro 15-30-15 Stern's Miracid 30-10-10	Fairfield Greenwich

TABLE 7. ANALYSES OF SMALL PACKAGE FERTILIZERS

Nitrogen, per cent						sphoric per cen		Potash, per cent		
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As muriate	Total	
				4.52	0.00	10.60	10.60		10.04	
0.42	0.56	9.96	0.00	10.94		5.92 3.65	5.87 3.40	0.17	5.13 3.35	
7.84	3.44	0.16	0.00	11.44	0.05	18.45	18.40		25. 25	
0.64	1.42	8.74	0.00	10.80	0.05	14.00	13.95		8.93	
5.26	3.72	15.00		23.98	0.00	18.90	18.90		17.96	
0.00	5.20	10.14	0.00	15.34	0.05	27.55	27.50		10.70	
0.06	1.36	11.24	4.84	17.50	1.10	12.60	11.50	5.07	10.59	
0.66	2.72	0.40	0.82	4.60	0.80	12.50	11.70	5.48	6.93	
0.00 0.20 0.00	5.08 5.68 5.68		1.43 0.08 0.00	10.08 5.96 6.26	0.55 0.10 0.38	7.55 10.50 16.17	7.00 10.40 15.79	3.88 3.94 I1.47	4.36 5.38 12.58	
0.00	7.12		0.08	15.36 27.96	0.05	30.80	30.75	0.17	15.11 16.03	

IADI	E 7. ANALYSES OF SMALL PACKAGE	FERTILIZERS
Station No.	Manufacturer and brand	Place of sampling
	STIM-U-PLANT LABORATORIES, INC	Z.
3445 4154 4155	Stim-U-Plant 5-8-7 African Violet Food Stim-U-Plant All Purpose Plant Food 5-8-7 Stim-U-Plant All Purpose Plant Food 11-12-15	Manchester Guilford Guilford
3556 3512	SWIFT & CO. Chicago, Ill. Pink Vigoro 8-12-6 Vigoro Complete Plant Food 6-10-4	Hamden Middletown
3637	SWISS FARMS Philmont, N.Y. Plantdrops Instant Liquid Plant Food 6-18-6 UNION WADDING CO. Pawtucket, R.I.	Milford
3573	Jiffy Planter 19-28-14 WALKER-GORDON LABORATORY CO., Plainsboro, N.J.	Hamden
382810	Bovung 2-1-2 THE WILBUR-ELLIS CO. New York, N.Y.	Plainville
4549	Wil-Gro Organic Nitrogen Fertilizer	W. Hartford

TABLE 7. ANALYSES OF SMALL PACKAGE FERTILIZERS

IAL	<u>) LE (.</u>	ANAI	LOES	OF SIM	IALL PACKAGE FERTILIZERS					
		itroge: er cen				sphoric per cen	Potash, per cent			
Nitrate	Ammoniacal	Water- soluble	Water- insoluble	Total	Citrate- insoluble	Total	So-called "available"	As Muriate	Total	
2.97	3.92	0.00	0.11	7.00	0.05	11.10	11.05		8.93	
2.72	2.08	0.00	0.00	4.80	0.00	8.00	8.00	4.48	7.61	
0.00	5.24	6.00	0.00	11.24	0.40	15.75	15.35		16.73	
0.08	6.32 4.96	2.28 0.28	0.12	8.80 6.06		14.70 11.35	13.93 10.75	0.38 3.32	7.81 4.21	
0.00	5.60	0.26	0.00	5.86	0.00	17.50	17.50	3.67	5.93	
4.20	5.68	8.72		18.60	0.00	28.85	28.85		14.14	
				1.80	0.23	1.57	1.34		2.00	
0.24	2.16	7.64		10.04		5.60	5.60	0.29	6.14	

¹⁰ Sand: 1.16%.

TABLE 8. ANALYSES OF OTHER MISCELLANEOUS MATERIALS

	basd	5.60	3	43.66			4.32			3.86			0	
	muisangsM ebixo			24.32				28.89						
	Calcium ebixo			30, 10				41, 273	~~~	•				
	Water						76.09			37.07			5.71	
	Chlorine				00.00							0.00		
	Water- soluble potash	3, 76	1,64		00°0		0.02		4.	1,57	4.			
per cent,	"Available" phosphoric acid				0.12	7			1.38					
are in p	Citrate- insoluble phosphoric acid				0.08				0.25					
Figures a	Total phosphoric bios	4.63	3,30		0.20		0.02		9	4	0,35	2	Ţ	
(F.i	Lsto T negortin	3, 18	3.16		12, 16		0.16				2,46			
	Material	Chicken Manure Corn Cob ¹	Fertilizer	Fertilizer Ground Limestone	Horn Shavings	"Ko-K-O Mulch"	Magnesian Limestone Manure	"Nelco Agricultural Hydrated Lime"	Organic fertilizer	Pulverized Chicken Manure	"3-17 Mix Tobacco"	Unknown fertilizer	Unknown fertilizer	
	.oV noitst2	3747	2615	3475	3964	4107	3199	3685	4237	4211	3051	3232	3278	

indicates deficiencies
Mineral oil 0.08 per cent

4 Guaranteed 31.

³ Guaranteed 47.

² Qualitative analysis only

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